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Maher, W. J.

1960 - 1961

Catalogue

#1636 - #1779

Antarctica

Maher
1960

Catalogue

Nov. 1 Hallett Station, Cape Hallett, antarctica.

1636 ♀ Pygoscelis adeliae wt. 1450 gm Ovar. found dead
1637 ♀ Aptenodytes forsteri wt. 47 Brood patch.
1638 ♂ " " wt. 52
1639 ♂ Catharacta maccormicki wt. 650 gm Testes 5 x 1 mm
1640 ♂ Pygoscelis adeliae wt. 1375 gm Ovar. found dead (Coll. R. Falla)
1641 ♂ " " wt. 4700 gm Testes 38 x 27
1642 ♀ A " " wt. 4900 gm (found dead) 4 no. fall. ova 35 mm
1643 ♂ Ad. " " wt. 5300 gm (found dead) Testes 40.3 x ~~12.7~~ 19.7
1644 " " wt. 1075 gm. Ovar, found dead.

Nov. 6 Hallett Station, Cape Hallett, Antarctica.

shel. 1645 ? Pygoscelis adeliae (found dead + partly eaten by skuas)

Nov. 7 Hallett Station, Cape Hallett, Antarctica

1646 ♂ A Pygoscelis adeliae wt.-? Testes 44 x 21 Shell.
oviduct. 4 fall 35 mm
1647 ♀ A " " wt. 3862 (found dead)

Nov 9 Hallett Station, Cape Hallett, Antarctica.

skel. 1648 ? Aptenodytes forsteri wt. 56 lbs. Brood patch
266 gm Fat V.H. Stom.
Skel - 1649 ♀ Pagodroma nivea wt. ~~200~~ ova 3.5 mm Saved
Fat: H Stom empty Moult
Skel 1650 ♂ " " wt. 312 T. 16.8 x 13.7
Fat H. Stom empty Moult for
— 1651 ♂ " " wt. 307 T. 18.4 x 14.0 Contom
Fat VH Moult. head heavy Stom.
1652 ♀ " " wt. 302 Ova 4 mm Saved
Fat VH Stom: Empty
1653 ♂ " " wt. 263 T. = 16.4 x 12.6
Fat. Exc. Stom. Empty
1654 ♀ " " wt. 276 Foll. 4.2 mm Moult Contom
Fat H Moult contom
1655 ♂ " " wt. 301 T. 16.4 x 11.6 Stom empty
Fat H. Stom empty
— 1656 ♂ " " wt. 307 t 16 x 12
Fat H. Stom empty
Skel 1657 ♂ " " wt. 255 T. 15.7 x 11.7
Fat. H Stom. saved
— 1658 ♂ " " wt. 285 T. 16.5 x 12.0
Fat H Stom. Empty
— 1659 ♀ " " wt. 260 Ova = 6 mm + Moult

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Nov. 9 (cont.)

1660 ♂ Pagodroma nivea — Fat. V.H. Stom. empty wt. 274 T. 18.2 x 12.3
1661 ♂ " " — Fat VH. Stom. Some Moult contours wt. 307 T. 17.0 x 13.2
1662 ♂ " " — Fat. VH. wt. 284 T. 17.7 x 13.1 (found dead, probably from last year)
1663 Catharacta maccormicki wt. 1325 gm Brood patch

Nov. 21 Prion Prenguin, Cape Hallett, Antarctica

1664 ♂ Pagodroma nivea — Moult, contour + down, Renal Ventral Cap Tract, Sem. Rectum L 5.0 6 - sem. wt. 259.5 T. 16.8 x 11.6 Fat. H. Stom. empty
1665 ♂ " " — Fat. Mod. Stom empty. No Brood patch. No moult. wt. 225.5 gm T. 14.5 x 9.4
1666 ♀ " " — Stom. empty. No Brood Patch (Same burrow 1665) 246.0 Ova. 3.7 mm Fat. Mod
1667 " " — 246.5
1668 ♂ " " — Fat. Mod. Stom. empty. No brood patch - wt. 244.5 gm T. 16.7 x 11.7
1669 ♂ Catharacta maccormicki — B.P. not developed Fat. LT. Stom. Fresh Vent. (Sand) wt. 1350 T. 25.9 x 11.2
1670 ♂ " " — Fat. Mod. Stom empty B.P. 65 x 40 1350 T. 23.0 x 10.0
1671 ♂ " " — Fat. L.T., No B.P., Stom. Pebbles. 1185 T. 18.2 x 13.0
1672 ♀ " " — Fat Light. B.P. not developed, vascular Stom wt. 1460 Ova: 6 mm empty

Nov. 25

1673 ♀ Leptonychotes weddelli (baby ♀) TL. 237
1674 ♀ " " (pup) TL = 158

Nov. 23

1675 Pygoscelis adeliae egg - laid on Nov. 10, collected Nov. 23 complete clutch 1 egg

Nov. 26

1676 Pygoscelis adeliae egg. 1 egg. all. Colin Dudley wt. 39.3 gms.

Nov. 25

1677 " " " 1 egg clutch. Infertile.

Nov. 28

1678 " " " ~~2 eggs~~ 1 egg Infertile

~~1679~~ " " " 2 egg clutch

~~1680~~ " " " 2 egg clutch

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Nov. 27 Cape Hallett, Antarctica.

1679 Pygoscelis adeliae, egg; 2 egg clutch
1680 " " " " "
1681 " " " " "

Nov. 29

1682 ♀ Catharacta maccormicki Stom. full squid, Brood patch Fat H. Wt. 1725 gm Ova 4.5 mm One ruptured follicle.
1683 ♀ " " Brood patch Fat. Mod. 2 Ruptured Fol. ova 6 mm Wt. 1525 Stom. Pork chop.
1684 ♀ " " Brood patches Fat H. 2 Ruptured foll. ruptured Wt. 1535 gm ova 7 mm Stom. full
1685 " " eggs, 2 egg clutch
1686 " " eggs, 2 egg clutch.
1687 Pagodroma nivea, 1 egg (probably 1 year old)
1688 " " 1 egg (probably second year old)
1689 ♀ " " Probably from last year. Duck, found dead + frozen in burrow.
1690 ? " " " " " " " "

Dec 2

1691 ♀ Pygoscelis adeliae Fat Low. all but one ruptured foll. Wt. 3990 gm Skeleton

Nov. 29

1692 ♀ Pagodroma nivea Fat. Mod. Breast dirty from scraping nest. Wt. 229.0 ova 6-8 mm Stom empty

Dec 2

1693 Pygoscelis adeliae egg found frozen outside nest. bb
1694 " " " " " " bb

Dec 6

1695 ♂ Pygoscelis adeliae, wt. Called same day hatched
1696 ♀ " " wt. " " " "
1697 ♂ " " wt. 95.7 Dud in egg ½" pack hole yolk sac 17.5 gm

Dec 5

1698 ♀ Pygoscelis adeliae wt. 4.2 Kilos (Skel)

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Dec 16 Cape Hallett, Antarctica.

IS 1016 1699 Skull & pectoral found in skua

Dec. 19

1700 ? Catharacta maccormicki 3 days old. Found dead. Stom. & bursa clear. Liver & duod. loops + gallbladder ~~+ testes~~ wt. 87.7 Blood clot on right side head

1701 ♂ Pygoscelis adeliae wt. 219.7 gm

Dec 22 Cape Hallett Antarctica

1702 ♂ Pygoscelis adeliae wt. 143.0 gm

1703 ♀ " " wt. ~~80.0~~ 85.0 gm

1704 ♀ " " wt. 80.0 gm

1705 ♂ wt. 97.5 gm

Dec 25 Cape Hallett, Antarctica.

1706 ♀ Pygoscelis adeliae wt. 623 gm.

Dec 26

1707 Leptonychotes weddelli Skull. Found in penguinery.

Dec 29

1708 ? Catharacta maccormicki wt. 79 Young chick of pair 308. Died the day after being brought in.

Jan 7

1709 ♂ Catharacta maccormicki wt. ~~1198~~ (1210) Ad of pr 35 found dead the date. T. 15 x 6

1710 ? " " Chick died at hatching wt 61 some yolk sac

1711 " " Died at 16 days age wt. 373 Fat. Light.

Jan 10

1712 ♂ " " Fat Med. Chick of nest 332 Dead wt 864 ~~and worms~~ when found. Water

Jan 17

1713 ♀ 509-81966 Pygoscelis adeliae ~~wt 5200~~ Fat heavy. General body moult - see note wt 5300 (yearling) ova 1 mm

Jan 18

1714 ♂ Catharacta maccormicki 993 gms. Moder. Fat Heavy See note

Jan 20

1715 ♂ Catharacta maccormicki 570 gm Fat none (Gratkau)

Mather
1961

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Jan 6 Cape Hallett, Antarctica from nest 306 Found dead.
1716 ♀ Catharacta maccormicki Wt.? No fat. capped from band.

Jan 13 Cape Adare, Antarctica. Broodpatch. Moult. sea mats.
1717 ♂ Macronectes giganteus Wt. 4100gm T. 9X4
1718 ♂ " " Fat Mod. No broodpatch T=? Wt. 4750 gm Moult-Sea mats
1719 ♂ " " Moult: sea mats. Wt 4100 Storm: gravel + fur penguin feathers. Fat none T. 13x8
1720 ♂ " " Moult-Sea mats Wt 4925 Storm empty Fat Mod. T. 13x9

Jan 23 Cape Hallett, Antarctica.
1721 ♂ Catharacta maccormicki Fat Little. Wt. 220 T. 1x3 Lobita

Jan 22 Cape Hallett, Antarctica 509-81 972
1722 ♀ Pygoscelis adeliae Wt. 4000gm found dead.

Jan 24 509-81982
1723 ♀ " " Wt 3710 Coll. ~~Geo. Kelley~~ adam Lockyer
1724 ♂ " " Wt 1750
1725 ♀ " " Wt 2615
1726 ♀ Oceanites oceanicus Wt. 40.0 ova = 3mm Fat ☆ Lgbr. single Broodpatch-large

Jan 25
1727 ♀ Pygoscelis adeliae Wt-2725 < 1mm
1728 ♀ " " Wt. 2100 "
1729 ♀ " " No. 509-81975 3400 Ova 4 mm est.

~~Jan 24~~
1730 ♀ Pygoscelis antarctica Wt-4000gm

Jan 30
1751 ♀ Pygoscelis adeliae Wt. 4575 81991 Fat L ova Est 3.
1752 ♂ " " 4100 81992 Fat L T. 19x8
1753 ♂ " " 3900 81990 Fat L T. 18x7
1754 ♀ " " 4325 81986 Fat L ova. Est 2—
1755 ♂ " " 4225 977 Fat L. T. 24x6

Maly
1961

Catalogue

1756 ♂ Pygoscelis adeliae wt. 3950 Fat: L. T: 14×7 81984
Feb 2 Cape Adare, Antarctica
Catharacta maccormicki wt. 1275g
Feb 1 Cape Adare, Antarctica
1757 ♂ Macronectes giganteus Fat: Light wt. 4800 T=11×9
Feb 6 Cape Hallett, Antarctica
1758 ♂ Oceanites oceanicus wt. 34.6 Brood patch present T=4mm Fat: Mod.
1759 ♂ " " wt 38.1 Brood Patch + Fat: Mod
Feb 7
1760 ♂ " " wt 38.0 T. 3mm diam Brood Patch + Fat M-V
Feb 8 Cape Hallett, Antarctica
1761 ♂ Catharacta maccormicki wt: 1428 Pair 12 L-blue T=11.7×4.3 Fat Mod
1762 ♂ " " Stom=Krill 1450 Pair 204 L. Y-O T= 11.2×5.4 Fat Mod
1763 ♂ " " Stom empty. 1300 Pair 206 R. R-Y T.= 9.5×4.8 Fat M-V
1764 ♀ " (Moult see notes on all 4) 1375 Pair 42 Unbanded Ovm 3mm Fat Mod
Each 102 from 307
1765 ♀ " " wt. 1019 Fat Mod See notes
Feb 13 Cape Hallett, Antarctica
♀ Catharacta maccormicki wt 1400 Fat V-H. ova 4mm
Feb 16 Cape Hallett, Antarctica
1766 ♀ Oceanites oceanicus wt. 40.0gm Brood Patch present. Fat M-V Found dead
Feb 19 Cape Hallett, Antarctica
1767 ♀ Lobodon carcinophaga wt.? Skull + skeleton
1768 ♀ " " wt.? Skin saved. Stomach saved Total length 71 inches
1769 ♀ Catharacta maccormicki wt. 985. (Broken winged bird, Stunned. Killed this date)
Feb 22
1770 Catharacta maccormicki wt. 527 Each 331 Found dead (2-3 days) this date

Maley
1961

Catalogue

Feb. 14	Cape Hallett, Antarctica			
1771	♀	Catharacta maccormicki	Wing broken. wt. 1446	Fat Heavy. Shot
Mar 6	Cape Hallett, Antarctica			
1772	♂	Pagodroma nivea	wt. 276.0	Fat VH Stom: E
1773	?	"	" 128.0	Stom empty. Lt. Found dead
1774	♀	"	" 195.0	Stom empty VH
1775	♀	"	" 264.0	Stom empty VH
1776	♂	"	" 212.0	Stom empty Heavy
1777	♀	"	" 178.0	Stom: fish Cent. weed Heavy
Jan 13	Cape Adare, Antarctica			
1778		Hydrurga leptonyx		Skull
1779		Leptonychotes weddelli		Skull

Maher, W. J.

1960-1961

Journal

Antarctica

Maher
1960

Journal

Oct. 31 Hallett Station, Cape Hallett, Antarctica.

Arrived yesterday Oct. 30 at 12.40 P.M. I should before proceeding with a description of this station make a few notes on the trip down here day by day.

Oct. 22. Sat. Left Travis Air Force Base at 10:30 A.M. via Mats. Flew to Honolulu & landed at Wilcam Field near Pearl Harbor. Actually landed at the civilain air strip nearby & taxied for 15 to 20 minutes to the MATS Terminal at Wilcam. The flight took 10 to 10.5 hours. Landed after dark so that I saw nothing of the islands from the air.

Honolulu was hot & humid, should have brought short sleeved shirt & light pants for the stay.

Left on next leg of journey the following day at 2.30 P.M. (Oct 23). Took 2 pictures of field as we boarded & a couple from the air after take-off.

The flight to Christchurch, New Zealand took 24 hours. We made 2 stops, at Canton Island & Fiji. Both stops were made after dark- so that I have no impression whatever of what the islands were like.

Mabey
1960

Journal

Oct. 31 (Cont.)

Canton was completely dark. Soil appeared sandy with much crushed coral about the base. No trees seen except 2 / one on either side of the entrance to the Terminal building, coconut palms.

Ate a meal at the mess hall, $2.50, chicken & rice. Spent about an hour. Flight to here about 9-10 hours.

Fiji, four to 5 hours from Canton. A large commercial airport. Terminal building so new & modern. Fijians in white shirts & skirts served us coffee in the lounge, at 15 ¢ per cup. I walked about outside. The sky was clear & dark. I haven't seen a sky so black & so transparent so that it gave an illusion of depth, in years.

2d flight to Christchurch from there took about 8 hours. It became light about halfway there. We hit N.Z. on the N.E. coast of north island. Views of the island were fragmentary because of a partial cloud cover. Saw more of South Island. A high beautiful perfect

Mahy
1960

Journal

Oct. 31 (cont.)

Oct. 31

volcanic peak piercing the clouds. I took several pictures of this. a rugged range of snow capped mountains. which gave way to a beautiful agricultural area, the Canterbury plains. It was late spring in N.Z. and the fields were all new green, the trees just leafed out. The prevalence of Lombardy poplars planted in the hedgerows gave the area a very pronounced north temperate aspect. Landed at 10:30 or so at Christchurch on Oct. 25. In crossing the dateline near midnight we had somehow lost Oct. 24 entirely. Ill have to figure this out sometime.

There was no customs inspection of baggage. Our shot records were checked + we did fill out an entry form, also changed some money at the prevailing rate of $2.85 per pound.

USARP has an office 150 yards from the terminal. Met Eddie Goodale the USARP representative + Peter Wood an assistant. They had made hotel reservations at the Rainsborough Private Hotel and after we had eaten

Yaha
1960

Journal

Oct. 31 (cont.)
a lunch at the terminal and gotten our luggage they took us into town to the hotel.

I spent 3 days in Chrst church, and left on the evening of the 28 for McMurdo sound. The interval was spent walking about Chirstchurch which is a beautiful city, visiting the university & the university museum.

The latter contains a very superior section on natural history. Habitat groups of N. Z. birds very well done. Also a section on N. Z. paleontology. There is an excellent ~~addition~~ exhibit also of Maori material.

At the University I met an invertebrate Zoologist Frank (?) Knox who is department Chairman. Bernard Stonehouse is newly arrived on the staff. & had a good talk with him. Dr. Robert Falla of Wellington Museum was on campus & I met him briefly there.

Did my christmas shopping at a gift shop at the terminal. This shop had the best selection of New Zealand material I found anywhere. They

Mahey
1960

Journal

Oct. 31 (cont.)
offered to wrap & ship everything for me.

We were summoned to the plane at 8. A.M on the 28, ~~This~~ loaded aboard & ~~started~~ at 10 A.M. This was the shortest trip I have ever had. After a long warm up & run up of the engines the pilot gave it full power but just as we were getting up speed he cut the engines, we taxied back & were informed that there had been a malfunction of one engine. It was fixed shortly but as we were about to board word got out that all flights were canceled because of McMurdo weather. Several globe-masters already off were all turned back & they kept coming in at intervals through the day. Some had been out for several hours.

We were finally off at 10 PM. It is 2000 & some miles to McMurdo & this took about 10 hours. I was aboard a Constellation super 6. loaded with VIP's, generals of the press, admirals etc & about 4 USARP people. Landed at McMurdo at

Nahes
1960

Journal

Oct 31 (cont.)

7.30 A.M. - a beautiful clear day. Temperature was a few degrees above zero with a breeze blowing. George Toney the USARP representative met us & whisked us off in baggage to the base several miles off. We traveled in a sno cat. VIP's were flown over in helicopters.

McMurdo is Hectic - the only word for it. There were reputed to be 400+ men in it before the last batch of planes started flying. It is built on a hillside above McMurdo Sound, actually on an Island, Ross Island.

Met Ardo Meyers in my Barracks. Last saw him in June at Barrow. Curly Wahlschlag is here - he is in charge of the Bio lab here had a good chat with him & got some items of equipment

In afternoon walked over to Scott Base - the New Zealand base - located 2 miles away - with Ardo Meyers. Chatted with some of the men. Saw my first Skua, also Weddell Seals with pups. Photos of base & of Mt. Erebus, & Weddell Seals.

Maher
1960

Oct 31

Journal

(Cont.)

Departed McMurdo at 9.30 AM on Oct 30. Flew via C-47 (called by another name in the Navy.) on skies. Jato assisted take off. Had a good smooth flight some 3 hours to Hallett, perfectly clear & sunny at Hallet. Runway is about 2 miles from the base on the bay ice.

Dr. Falla was on the flight, also Bryon Reed who will be here studying Skua.

There is no use attempting to describe Hallett at this point. It is magnificent; that will have to suffice for now.

After storing luggage into sleeping quarters (a Jamesway) & laboratory (a Jamesway) went for a walk through the penguinery & rookery with Bryon Reed, Dr Falla, Don Douglas, Keith ~~Wilkie~~ Wise (an N-Z. entomologist) & one other chap.

Saw part of a movie "meet me in Las Vegas" or some such nonsense after supper. In late evening saw 3 Emperor penguins walking past camp. Dr. Falla & I walked out to them. Took

Mabey
1960

Journal

Oct 31 (cont.)
no pictures. 16 others were standing in a group 1/4 mile away.
Went to bed at 10:30 P.M. that evening.
Spent the morning writing up the above field notes. After lunch walked out to the skuary & spent about 3 hours ~~sitting~~ sitting & observing & wandering about.
Picked up 2 dead penguin chicks on the way in which seem like they would be good specimens.

Nov. 1. Hallett Station.
Found that the bio-lab was out of bounds all morning because of some tests being conducted there & walked over to the skuary. Spent one hour watching them & then finding I was quite cold I walked over into the penguin colony & joined Dr. Falla & Collin Bailey who were checking for penguin eggs. Returned to base with a penguin & a juvenile skua I found & then returned to skuary for a second hour before lunch.
After lunch skinned a young adelie penguin I had found yesterday. Made

Mahn
1960

Journal

Nov. 1 a rock to dry skins on over the stove. Klein began skinning an Emperor penguin. Don Douglas did on 2 of those we corraled ~~the~~ yesterday evening. Keith Wiss checked them for lice. The skinning took all afternoon + evening with an hour or so out to write letters + let the blood on the carcass clot. Collin Bailey skinned one bird + I the other.

Nov. 2 Hallet Station, Antarctica.

Wrote up above notes + walked over to Skuary. Spent 2 hours there + caught a ride back at 12 with Gordon Cartright and Charles Tranier. After lunch cleaned the 2 penguin skins + salted them. This took the bulk of the afternoon. After supper put up the specimen skins I scaled up yesterday. A little too dehydrated but it made a fair skin.

Nov. 3 Hallett Station, Antarctica.

Spent morning writing letters and other odds + ends. In afternoon walked from hillside in Skuary from 1:30 to 5. After supper helped Keith Wiss re erect his net frames also walked over to Skuary to pick up my camera which I had left

Mabey
1960

Journal

Nov. 3 there.

The day was completely clear & warm. I was able to write with bare hands on the Ballard in absolute comfort. This warm spell - the last 2013 days - has started some melting. Puddles have formed in camp & in low spots in the penguinery. Ice freeze at night.

A beautiful almost full moon over the mouth of the bay.

Nov. 4 Hallett Station, Cape Hallett, Antarctica.

Spent the morning in the Skuary, returned to the base by 1 PM for lunch. Took a little over 100 feet of movies of Skuas.

After lunch walked out to section of rookery on slope near cape. Took some movies (250'), spent an hour counting penguins coming into the rookery.

A shower & beer drinking bout in the evening effectively stifled all work.

Day was again clear until late afternoon when a breeze sprang up & at the same time the wind shifted from S. to N. A few clouds moved in & sky was broken by late evening.

Nov. 5 Hallett Station, Cape Hallett, Antarctica.

Spent the entire day in camp. In the morning writing notes & near lunch time

Maher
1960

Journal

Nov. 5 I skinned the last of the young penguins of last year that have been brought in. I was set to go to the skinning after lunch but was diverted to cleaning out the stored material in our sleeping passageway hut. This consisted of a large pile of rolls of roofing material which were carried to a nearby hut for storage; the remains of a bar dating from when this was the recreation building; and a large iron boiler. Before supper then I skinned & relaxed on one adult adelie & spent a large part of the evening repacking the 2 emperor penguin skins for shipment. I think I finally have a water tight (relatively) packing.

Also performed a little experiment. I took the skin off the adult adelie in one piece (sans flippers & feet & head) and put it out on the snow for the skuas. By late evening they had cleaned most of the fat off it without doing any damage to the skin. By the next morning (as I write this) they had it virtually all clean with a very few nicks in the skin to show for it. ~~It~~ Thus it may be possible to enlist the skuas in cleaning penguin skins with

Mabey
1968

Journal

Nov. 5 some supervision.

Day was warm, still & overcast.

Nov-6 Hallett Station, Cape Hallett, Antarctica.

Sunday. Walked out to the large mesa the long 1/4 mile off camp & photographed a ♀ Weddell Seal & calf. Took both movie and still slides. After lunch walked over towards cape, took a few feet of pictures of penguins arriving at the colony, & picked up the partly eaten remains of an adult penguin.

John Behrents (?) arrived on the plane & he, Don Douglas, & Dick Littell (USARP, PIO) walked about the rookery & the shanty taking pictures.

Finished cleaning that penguin carcass & read a bit in the late evening.

Movie of Weddell Seal + pup

Nov. 7 Hallett Station, Cape Hallett, Antarctica. Monday.

Spent the latter part of the morning in the shanty after first writing up notes & doing a few odds & ends. After lunch returned to the shanty & remained until about 4:30 when I returned to the lab.

After supper skinned out a penguin and put the skin - meat out - out to be cleaned by the skuas. By inspecting it every little while I found out a few-

Hales
1960

Journal

Nov. 7 things about this technique. Foremost I think is the necessity of having the skin & fat unfrozen. They began tearing the skin a bit hastily after it had become hard, whereas at first they had been daintily cleaning it up without hurting it. I took the skin in for the night & let it soften again before putting it out.

The day was mild & partly cloudy. A little breeze made it chilly towards mid afternoon.

Nov. 8 Hallet Station, Cape Hallett, Antarctica.

Rumor that a plane expected today would be the last one inspired a little writing binge which took all morning. In the afternoon I repaired to the skuary & watched for 2½ hours. It was snowing lightly, in fact had been all day, but a wind sprang up about 3.00 which chilled me my ardour & that of the skuas also. I left about 4 PM.

Finished cleaning the penguin cleaned (& torn) by the skuas; skinned & scored & put it out. In half an hour they had torn a gaping hole in it. The trouble this time I think was that I had anchored one end of the skin so that when pulling on it

Maher
1960

Journal

Nov 8 the skua would tear the skin rather than just moving it so it would if the skins were lying free. We will give it one more try with this modification.

Nov. 9 Hallett Station, Cape Hallett, Antarctica.

7 Emperor penguins were sighted just off camp in the morning. Several of us (Ron Douglas, Keith Wise, George Meyers) went out & photographed them. I took both movies and ~~stills~~ slides. We then drove one bird to camp & then sacrificed it. George Meyers wanted the blood and I wanted the carcass for a skeleton preparation.

Immediately after lunch Colin Bailey, K. Wise and myself took a weasel & drove over to the petrel cliffs across the bay. The bay off of the camp is covered by rough ice so we took the road to the airstrip which is situated at the mine end of Edisto Bay & cut across to the cliffs from there. The trip was an easy one the ice at this part of the bay being smooth & only marred by a few drifts. We reached the cliff at a point near where Keith said that Dr. Falla had seen a few birds. Here we spent perhaps 3 hours climbing about. We found a number of nests or occupied cavities & took 14 birds. We went along the cliff

March
1960

Journal

Nov. 9 for a mile or so & explored the foot of the glacier at its N-end. Returned to the base at 6 PM.

After supper weighed the snow petrels, skeletonized one adelie, skinned a second & skinned & partly skeletonized the emperor penguin. Stayed up until 2 AM or later listening to the election returns from the states.

Nov. 10 Cape Hallett, Antarctica.

Up at 8.30. Walked to the comm. shack & found out that Kennedy had indeed finally won. Altogether the day was barren of accomplishment. Before lunch I walked to the cape about a mile from the base. Keith Wise accompanied me. We reached one large sea cave some 30 feet high, as wide, and 50-60 feet in to the rear. This was located on the far (N.) side of the first promontory. We walked on to the second one where the cliffs make an almost 90° turn & disappear into the falling snow. This section of the cliff produces a beautiful echo & we amused ourselves like idiots shouting at it. Returned to the base at 1 PM.

The rest of the day my accomplishments were - escaping & salting 2 penguin

Maley
1960

Journal

Nov. 10 Skins, skelatonizing the adult skua found dead yesterday. I read in Murphy's Oceanic Birds for a while.

Nov. 11 Hallett Station, Antarctica.

Began trapping and banding + color marking skuas. Brian Red demonstrated the noose method described by Eklund. We worked right from the doorway of the bio-lab, put-3 nooses of nylon parachute shroud line ~~bait~~ baited with ham chunks from the mess hall. Worked at this until about 4 in the afternoon and got a total of 20 birds color marked. [The records are kept seperately from the skua reg. account, at back of book]. Collin Bailey and Keith Wise helped in the morning; Chuck Travis helped me after lunch. Skelatonized 3 Snow petrels in evening.

Nov. 12 Hallett Station, Antarctica (Saturday).

Trapped + banded skuas in morning with assistance of Collin Bailey. Noticed again that the interest of the birds in the procedure tended to dwindle + that most of the profitable trapping was done in the first hour or so. We got 11 banded by lunch. After lunch went to the skuary to watch. I found 2 of the color marked birds near

Mahen
1960

Journal

Nov. 12 where I have been watching. However, I found confusion still when only one per member was marked. Decided to go over this tomorrow by to hand a few adjacent pairs.

Put up 3 Snow petrel skins in evening. They are horribly fat.

Nov. 13 Hallett Station, Cape Hallett, Antarctica.

Collin Bailey and I spent the morning at the skuary mooring + marking skuas Unfortunately the attempt to catch specific individual birds was complicated by the fact that a cloud (1-2 dozen at times) of skuas converged on the bait, so many that the territorial bird usually could not keep them away. Hence we trapped several birds that were not of the pairs I have been watching. I returned there afternoon + watched. It turned out that we had both members of one pair marked + one member of several others.

After supper Keith Wirt, Don Douglas + myself returned + tried to catch some of these unmarked birds. We spent an hour or so + did mark at least one we wanted but again this was complicated by outsiders coming in to feed. Put up 3 snow petrel

Mahn
1960

Journal

skiis in evening.

Nov. 14 Cape Hallett, Antarctica.

Morning spent putting up one snow petrel skin. I spent the morning in doors in order to have a conference w/ Bob Tetus our scientific leader at the station regarding our sleeping quarters. It turned out that he was not up so the conference did not come off until after lunch. Following this I went to the skuary and watched for 2 hours. It was quite cold & a stiff wind made it uncomfortable as I left at 4 P.M. in order to put up another petrel before supper. Put a third one up in the evening. A fine impromptu beer party then developed in the bio-lab & I left it at 2 A.M. or a little after as it was breaking up.

Nov. 15 Cape Hallett, Antarctica.

Up at 10 A.M. with a slight headache. though even at that I was in better shape than Keith was & Collin Bailey both of whom ~~were~~ found it necessary to go back to bed & sleep in the afternoon. The wind was blowing pretty hard a steady 20 to 25 mph with gusts to 40. I saw

Mahen
1960

Journal

no point in going to observe skuas on
~~that~~ wood so brought in the last
5 snow petrels to them. I spent the
day reading "Lyeback for Grace" by
R.L. Murphy. The birds remained frozen
until after supper so I decided to let them
go. Wind died during the evening &
after the movie (20,000 Leguas under the
sea) & two clear calm out. Let
hope the radio communication improves
& we get that last plane in!

Nov. 16 Cape Hallett, Antarctica.

Brian Reid found some skua eggs
in the skuary late last night. This
then sparked a survey of the skuary
today. We covered the N. half of the
skuary in the morning; afternoon
we spent 2-3 hours discussing our
projects, areas of joint interest and so on;
& then from 4 to 6 PM finished up
the survey of the main skuary. The
few nests scattered through the penguin
rookery were not looked at. In the
evening I skeletonized one Snow Petrel
& put up 2 more skins, leaving 2 more
to go to finish the batch. Still no
radio communication but there was
a rumor at midnight that a "pip" was

14 abes
1960

Journal

Nov. 16 forming & there was hope that we would soon have communications.

Nov. 17 Cape Hallett, Antarctica.

The morning was spent organizing my notes on the skua nest round with Brian yesterday. After lunch I made a round of the skuary, visiting all of my allotted (50?) 86 nests. Spent the early evening organizing the resultant notes. After the movie, "Crazy Horse," I skinned the last 2 Snow Petrels.

A large flight of snow petrels was witnessed in evening & ten minute counts were made of these. The day was warm & mostly clear with a few patches of clouds in the afternoon. We are down to 3 feet of hard & 2 feet of soft ice on the runway. Radio contact was established in New Zealand sometime in the evening & we hope to contact McMurdo before morning.

Nov. 18 Cape Hallett, Antarctica.

Made a round of the skuary in the morning from 11 A.M. to 1 P.M. After lunch I wrote up the resulting notes & returned to the skuary to

Mahen
1960

Journal

watch for a couple of hours.
The weather was clear & relatively calm.
a thin layer of cirrus clouds came
in in the afternoon.
The movie was "The Violent Men"
with Glenn Ford, an above average
S--t kicker. Finished R. C. Murphy's
Logbook for Grace in evening.
Radio communications were no
better today. Rumors of contact with
the world were proven false & contact
with New Zealand was broken.
The ice about the shoreline is
deteriorating so that the concern is
not only in the airstrip but whether
or not we will be able to get to
the ship ourselves. The record radio
blackout for this region is rumoured
to be 9 days. I believe we are now
in our 6th day.

Nov. 19 Hallett Station, Antarctica. I cannot remember
this day in detail (this is being written
on the 22) I made a round of the
skuary before lunch, after writing the
resultant notes I wandered about the
penguin rookery locating pairs + nests,
paced off the distance between several of
the antenna poles in an attempt to locate the

Mabey
1960

Journal

nests and pairs with some reality.

Nov. 20 ~~Sat~~ Cape Hallett, Antarctica.

There was a tap to the snow petrels projected for the morning but no one else was up at 8 AM when I arrived at the Bio Lab so I went to work & skeletonized, or rather finished skeletonizing the emperor penguin killed a while back.

The camp was thrown off kilter by an incident occurring last night. At 10 PM the show was interrupted by an announcement that a plane, the famous last plane, was arriving at 11:30. There was much packing & scrambling as there are 6 people here waiting for the last plane. All were packed & we saw them off to the airstrip at 10:30 or so. Several of us then retired to the mess hall where a few minutes later communications announced that the plane had turned back. Much disgust. I went to bed, John Bayon went out to get the group. They returned by 12 or 12:30 had a meal & showed movies until 4:30 AM or so; so the camp was rather quiet this A.M.

I made a round of the sleeping

Mahen
1960

Journal

before lunch. In afternoon Brian & I
Tromped & bonded a few skuas. Wrote
notes & read in evening.

Nov 21 Cape Hallett, Antarctica.

Left camp about 9 A.M. heading for
Prions Precipice. I was traveling with
Don Douglas, Brian Reid & Colin
Bailey came with jeep in order to get
as close to the rocky petrel cliffs —
called Tombs Ramparts. We dropped them
off 2 miles from the cliffs & drove to
the moraine at S. end of the glacier
between the 2 cliff areas. Here is
a small skuary & I wanted to obtain
a few specimens. Spent 2 hours or
more, closer to 3, trying to snare
some birds. They did not respond
but I finally got 2 which we
dispatched with tribune in a plastic
bag ~~to~~ ~~ok~~ which we slipped over
the bird head. Meanwhile Don
got 2 other by throwing rocks at
them & a) breaking a wing & b) ~~st~~
stunning one with a blow on the head.

We climbed partway up the cliff towards
its S. end, the same area we visited
last time. No success. We then returned
to the N. end & climbed to top of hillcliff

Mahy
1960

Journal

by going up the back slope. Total distance was close to a thousand feet I would say. We found some active nests & saw a few petrels about the top. Finally got 2 birds & on the way down we got ~~a second~~ 2 more in the same burrow. Returned to base by 6:45 PM.

Nov. 22 Cape Hallett, Antarctica.

Woke up at 10:00 or so, wrote a few notes in the morning & made a round of the shacks after lunch. Spent the evening in some carpentry work (shelves again) and went to bed early enough.

Radio communication is still out, a C-124 flew over about 3 PM and got a weather & runway report, but had no word on a plane.

Nov. 23 Cape Hallett, Antarctica.

Awakened this morning to the announcement that a plane was 10 miles from the station. The camp was galvanized to action. The 8 or 9 people waiting to catch the plane were up & packed even before it landed. Keith Wise had to get his nets in. A large quantity of mail was brought in & sorted & shortly

Maher
1960

Journal

after everyone departed. With the departure of the 6 extra bodies in our filthy passageway but we got hung + cleaned house. The floor scrubbed revealed a gray deck paint underneath. We even got new bunks which had come on the plane to replace our old cots. Colin Bailey dug out some white paint + we gave the plywood panels which subdivide the passageway a coat of flat white. I made a round of the skuary from 4-6 P.M., Painted my share of the painting (2 panels) + went to the show "The Lake" a very disappointing film.

Nov. 24 Cape Hallett, Antarctica. Thanksgiving day. I slept in until about 9:30 the A.M. In spite of good intentions I was in a holiday mood and did not feel like working. I did catch up on some note writing before noon + made a round of the skuary from 2 to 4 P.M. Attended a party for an hour or so + then did some more painting in the passageway. The rest of the bio group had put a colored coat on the partitions + I did my allotted 2 feet before dinner. The

Mabey
1960

Journal

cook produced a fine meal actually but I was not in a festive mood & just regarded it as a good meal. Gave up the notion of killing a seal & will do it tomorrow morning. Saw the show this evening, "Jumps into Hell" or some such nonsense. I must stop going to them!

Nov. 25 Cape Hallett Antarctica:

I was up about 8:30 or so. Colin & I got ready & drove out to the seal seen resting on the snow near one of the bergs off shore. ~~Then~~ Colin who has killed many of them at Scott Base when they use them for dog food, volunteered to kill a seal for me, & had been persuaded to make it a cow & pup. We circled the group of bergs and parked by the big berg ~~and~~ the ample seal had turned out to be a cow and pup. We walked over to them, 100 yds from the vessel. Colin put the point of an ice ax ~~through~~ through the skull of the ~~the~~ which shuddered & died instantly. She bled profusely from the mouth & nose as she died so. The bleeding was copious & prolonged indicating that the heart was still ~~the~~ beating the the animal was in all probability completely

Mabey
1960

Journal

Nov 25 unconscious. The pups did not die as readily & required a second blow. We walked back to the vessel & I drove it to the seal, backed it in position to pull the seal to shore. Before putting the rope on I decided to get a total length measurement. I gave Colin the end of the tape & held at the head of the seal, bent over & grabbed a flipper saying something like "I'll straighten it out" when the ice began to tremble & there was a roaring sound behind me. I turned & saw the tall berg which must be 100 feet tall crumbling & falling to pieces before me. Colin said "the berg is rolling over" but the same thought had already entered my mind. The next impression I had is of a great dome of water mushroomed up to 3035 feet in height. I was still standing rooted my mind racing. We were standing next to our vessel. The vessel vessel must float. The mountain of water suggested that a wave might sweep over the ice, or that the shock wave might crumble the ice about us & pulverize it. In the case the vessel vessel at best be a temporary refuge. We couldn't outrun the water either.

Mabey
1960

Journal

Nov 25 so I stood completely immobilized & cried "what do we do." Calvin ~~moved~~ answered "run" & took off. I followed. Calvin was wearing crampons & cut ran me handily. I remember being envious of this & also I found that the steel tape was balled up around ~~the~~ my hands effectively immobilizing them. After 100 yds the futility of running became apparent. We stopped & saw that the water had mostly fallen back in the hole & that the keg now lay quietly on its side. A shock wave in the form of a large ripple in the ice, perhaps 3 foot amplitude, swept under us & moved on to the shore. My legs felt weak. We walked back, cut the throats of our seals put a line on them & pulled them to the base. Our escapade had been witnessed from the shore & we are both credited now with the antarctic speed record.

Both ~~them~~ seals were skinned by 1 PM. Calvin helped me with the & skinned the pup. I spent the afternoon getting the fat off the skins. The bulk of this was done by 5 PM, the skins however need a final cleaning before I can cure them. I went to bed at 9 PM.

Mabey
1960

Journal

Nov. 25 Cape Hallett, Antarctica.

I can't recall the day in any detail even 24 hours later. I know I was busy most of the day with the seal business. I made a round of the skinning in the afternoon & spent the evening cleaning some of the skeletal parts of the seal. Had glacier ice water for the first time

Nov. 27 Cape Hallett, Antarctica. Sunday.

Up fairly early, I wrote a few notes then went to work on the pup seal skin & skimmed out the limbs. This took me until 3 PM. I then opened out the skin to let the shade get to them, the large skin being so stiff I couldn't work it & the temperature was down so that working hands was uncomfortable. Made a round of the skinning from 6 to 8 PM checking mostly nets which needed it. In late evening picked up 3 clutches of penguin eggs.

Nov. 28 Cape Hallett, Antarctica. Made a round of the skinning in the morning after first cleaning up some back gates. Returned to base at 2 PM. Spent the afternoon skinning the limbs out of the large seal skin. The day was warm & sunny as it has been the past couple of days.

Mahen
1960

Journal

Nov. 29 Cape Hallett, Antarctica.

Today we made what may be the last trip to the petrelery. We were all up about 7 & after the usual fuss & muss were started by 9 AM. The trip over was uneventful, the ice is still good though the road through the rough ice leading to the airstrip is badly melted in places. One stretch was covered w 2 feet of water & I detoured around that rather than test the ice underneath. Colin & Brian were dropped at Snow's Plateau which they hiked to ascend for soil samples. Don Douglas and I drove to the N. end of the cliffs. We were to climb them there & meet the other 2 somewhere along the top. The climb this time was quite easy. We wore crampons and circled back up the snow field where the slope was easier. We spent a couple of hours scrambling our way along the top of the cliffs looking for petrels & finally met Colin & Brian at the highest point of the cliffs. All of us then descended the back side of the cliffs to the skinny ice the moraine where we ate our lunch.

We left here about 3:15 & arrived at the

Mabes
1960

Journal

base by 4 PM.

It was clouding over as we arrived & the wind began picking up. By late evening the weather was threatening.

The day however had been warm & clear & still. A beautiful day. & the country along the top of the cliffs was magnificent, this was the finest day we had yet. On the descent we tried to slide down the snow slope but it was too soft for a continuous slide & all I did was get the seat of my pants wet.

Nov. 30 Cape Hallett, Centralia.

Write up skuary notes of last 2 days & also petrel notes from yesterday. Finished cleaning young seal skin & salted & brought in 8 seal skin & salted that also. Made rounds of skuary between 5 & 6:45. Finished up skin after supper. Day was overcast & warm. Snow falling gently in morning, large puffy flakes. Wind came up in afternoon. It now blowing a large breeze & snowing.

Dec. 1 Cape Hallett, Antarctica.

It blew a gale all day. When I got up at 8:30 the wind was blowing about 30 mph with gusts up into the 40's. It continued this way until late in the evening with occasional lulls.

Wakes
1960

Journal

I noticed when I went to bed that the wind had died, about midnight. It was cloudy all day & visibility was obscured. The temperature was about freezing. I remained in all day. Put up the 2 petrel chicks first thing, they did up nicely which was surprising, but I did leave the skull & eyes in the smaller one. I wrote notes in the middle of the day & attempted to compile all my hand notes. In late afternoon & evening I put up 4 skua skins collected a while back. In late evening went out with Don Douglas & tried to shoot an antarctic petrel. We walked out among the bergs a quarter mile from shore. I had 2 shots at petrels, both of which yielded nothing; though I did hit one for what satisfaction that gives.

Dec. 2 Cape Hallett, Antarctica.

Made a complete round of the skuary before lunch. In afternoon sexed pairs in penguinery and compiled skua notes. In evening put up 2 snow petrels. A calm warm day. Someone said that it reached 33°F yesterday. It certainly was a change from yesterdays weather. This is second time the temperature has risen above 32°F

Wales
1960

Journal

the other being a 38° record on Nov 30
Movie "Man without a star" appropriately
violent.

Dec. 3 Cape Hallett, Antarctica. Saturday.

Another clear sunny day; calm. I made a round of the skuary between 1:30 PM & 4:30 P.M. a complete round this time. Also took a few Kodachromes of the birds (Roll #7). I put up 3 snow petrels in late afternoon & evening and did up the skua notes. 7 Emperor penguins showed up in the evening, & Tom Ballard & I went out & took a few pictures...

Pictures

Emperors

Dec 4 Cape Hallett, Antarctica. Sunday.

I wrote up a few notes in the morning & made a round of the nests in the penguinery. The afternoon was fluttered away partly in wandering about the penguinery, partly in reading Sladen's paper & partly in talking. Spent the evening reading.

Dec 5 Cape Hallett, Antarctica. Monday.

Watched Lily nest 204 for 3 hours in the morning; 10 AM to 1 PM & from 2:30 to 4:30 in the afternoon. Did then made an abbreviated round of the skuary and was in the base by 6:15 PM. The evening was spent writing a few notes & reading. Finally finished Rabbi in Arms. Read

Mabey
1960

Journal

a little of Julius Caesar before going to sleep.
The day was warm & still. A little cloudy in the morning but it cleared off before noon.

Dec. 6 Cape Hallett, Antarctica.

Spent morning (10 AM to 1 PM) in skinny watching at my usual post. Returned after lunch & made a complete round of the skinny. In evening put up one skin & wrote up my notes. Day was overcast in morning & part of the afternoon & a few flakes of snow fell about 10 AM but it cleared off. It was warm & still all day.

Dec. 7. Cape Hallett, Antarctica.

In the morning I put up the last of my skua skins & prepared the skua of which Donald wanted the skull & wings. Spent afternoon in skinny & checked all penguinary skua nests as way over & on return. In evening skinned 3 penguin chicks, a nasty job as I found the skin as thin as tissue paper & I tore all 3 of them in the process. Went to a film, "Drum Beat" or something.

Dec. 8 Cape Hallett, Antarctica.

Resalted small seal skin & packed in

Mahn
1960

Journal

plateau bay. Walked to skuary + watched for 3 hours or so. Returned to skuary after lunch + made a complete round which lasted until 6 PM. Sallied about seal skin right after lunch. another warm, clear, still day. Ice has now become so rotten that it is unsafe to walk out onto the bay. This is particularly true among the big bergs where one berg by turning about in the past 2 days has cleared a large open patch of water. The ice in this entire vicinity is rotten + wet looking. In other places it is safe to walk about; the main difficulty being in getting from the shore to the main ice. Open water is now within a mile, just past the first cape where the large sea cave is located.

Dec. 9 Cape Hallett, Antarctica.

Relabeled Snow petrels in morning then to skuary + watched from 11 to 3 had a brief lunch and returned to skuary from 4 to 5:15 then made a partial round of the skuary + returned to the base. In the evening I wrote notes. Day was exceptionally warm + still. In late afternoon the water discharged into the skuary from

March 1960

Journal

the large alluvial fan was the most greatest I have seen. Several springs appeared on the skirts of the fan & the Spa was more extensive than before. Which scratched water partly surrounded the mound I watched on. A high 4-5000 foot ceiling came in in late evening.

Dec 10 Cape Hallett, Antarctica. Saturday.

Spent afternoon in skuary watching from 1:30 to 5:45 PM. Morning spent reading Tinbergen's paper. Read in evening and attended one of the three movies shown; "Drum Beat" I think something. Another clear sunny warm day.

Dec 11 Cape Hallett, Antarctica. Sunday.

The day was overcast and a little breezy. It looked for a while as if we were in for a storm, but as the day wore on & the breeze neither increased nor shifted direction it became apparent that we weren't & towards late evening the clouds began to lift & shafts of sunlight played on the mountains across the bay. I stayed in all day. In morning I read & slept, & after lunch I developed 2 rolls of black & white film. In evening read some & recorded Beethoven's third

Antarctica
1960

Journal

Dec. 11 piano concerto on tape + a few shorter pieces from records in the science building.

Dec. 12 Cape Hallett, Antarctica.

Made a record of observing in the morning, from 10 to 12 approximately, after lunch I cut up fencing wire. Found that it was 30 inch width so made 15" fencing strips of it. I watched in the observ for 2 hours in the afternoon. In evening developed a roll of black white film, saw "Carmen Jones" at the local cinema, and afterwards wrote up my notes.

~~Yesterday~~ morning was sunny + clear but after noon it became partly cloudy + in the evening late it began to snow.

John Baron, the mechanic on the base, a man of 50 or so had a mild heart attack at noon in the mess hall. I was not present at the time + did not hear about it until evening. The attack is a mild one + according to Colin Bailey is usually referred to as a "Coronary embarrassment". Chances of recovery are good.

Dec 13 Cape Hallett, Antarctica.

The day was cloudy + gray, with

Maher
1960

Journal

Dec. 13 a few large flakes of snow falling off + on during the day. I spent most of the day in the laboratory, though I did go out + fence in nests 307 + 308 which are located in the top of the knoll. That seems to be the only real accomplishment. News that a ship was expected in spread through the camp in late morning. I bought 12 Christmas cards from Brian + got them ready during the afternoon.

Dec 14 Cape Hallett, Antarctica.

Put out 6 fences in morning. Two were put about nests in penguinery + 4 in Shuary. In late afternoon 4-6 (or 3-5) I ran a round of the Shuary. Brought in a pipping egg + hatched out. The day was mild but partly cloudy. Late in the evening it began snowing rather heavily but the wind was still + the snow fell gently. I went to bed without having anchored my fencing adequately. I almost forgot the most

~~Dec 15 Cape Hallett, Antarctica.~~

important event of the day. At 8:15 AM a helicopter arrived + a few moments later a second one. The icebreaker Staten Island was in our vicinity. Our

Mabes
1960

Journal

because of us she stayed 25 miles or so out, far beyond our sight. Yet it was good to know there was a world beyond our cliffs, & we all stood about gawking at the helicopters and the 6 or 7 people who came in with it.

They were complete with an official photographer who remained behind to get a picture of the helicopters departing & then went out with a mail bag & John's gear. The purpose of the visit was to evacuate John Baron, one of the SaBers who had a coronary embarassment on ~~~~ Monday at noon. I talked with John since the accident. He looked better than I expected. He could talk but with some evident difficulty. His right arm which was supposedly partly paralyzed was strong enough that he could give a firm grip when I shook hands with him.

The coming of the copters I think affected all of us to a certain extent. It served as a reminder of the outside world & again our isolation, ~~~~ and somewhat unsettled us. I think there was an upswing in homesickness in[illegible] around the station.

Dec 15 Cape Hallett, Antarctica.

Maher
1960

Journal

Dec. 15 The day has been spent anchoring my 6 cage. I obtained some 5 gallon tins & other containers from the dump. Three of the enclosures were then ~~fished~~ anchored by wiring them to 3 each of the containers filled with rock & sand. ~~It~~ seems ~~that~~ I hope that this should be sufficient to anchor them against any gale were likely to get. The other 3 were anchored by large rocks spaced about their periphery. In the evening was "Madison of Old Abilene" certainly the worst picture ever made.

Dec 16 Cape Hallett, Antarctica: (Friday)

Round of showing in AM from 10-12 AM to be more precise. After lunch & writing up the notes I went out for a couple of hours of penguin movie photography.

Spent several hours in the evening working on my aluminum cage. For this I am converting a large crate, 10 x 4 x 5 feet which I pulled up from the shore by means first thing in the morning. The movie "Top of the World was a real bomb, the worst ever, but since I had been in Alaska when it was being filmed I was glad to see it.

Mabey
1960

Journal

Dec 17 Cape Hallett, Antarctica (Saturday)

I made a round of the skuas in the morning & spent the afternoon & part of the evening working on the skua cage & writing notes.

Dec 18 Cape Hallett, Antarctica (Sunday)

Slept in late this morning & did not get up until 10:30 A.M. The day was overcast & breezy. Snow fell intermittently in large puffy flakes. The wind from the S. suggested an arriving storm but the day wore on & it did not materialize. I had intended to read during the day but instead worked on the skua cage & finally finished it up. The 2 chicks Modoc & Gretchin are eating up both a lot of time & a lot of food. I made a trip over to 307 & 308 & weighed the chicks in the late afternoon.

Dec. 19 Cape Hallett, Antarctica (Monday)

All of us got up late today. Don showed a movie from midnight to 2 A.M. - "Last of Zanzibar" - not too bad. anyway we were all up quite late to see it.

Made a round of the skuas in afternoon weighing the penned chicks that were out & some of the newly hatched unpenned ones.

Maley
1960

Journal

& nest
numbered
323

Also penned one more the nest, the nearest skua nest, no. 323. This is a one chick nest but is situated close among the penguins & I thought it would be an interesting & handy one to follow. Put up one skua chick & a penguin chick in evening.

Dec 20 Cape Hallett, Antarctica.

Made a round of the skuas after lunch & weighed all of my penned chicks in the process. In evening finished up skeletonizing a penguin adult begun weeks ago & skeletonized another which has been sitting out front under a box for about as long. The skua cage was moved into position by our front door with the aid of Pat Lee & George Allen & a fork lift. Prodoc & Gretchin were put in the cage for a while and seemed not to mind the out door temperature. In a few more days I hope I can leave them out there

Dec 21 Cape Hallett, Antarctica.

Round of skuas after lunch, then wrote up notes in evening. Spent some time measuring feet & flippers of chick remains found at nests. With this I hope to be able to give an average weight for chicks of different foot & flipper sizes. In checking in Sladen I found that he did not

& dog & skeleton out outside temporarily

Mabey
1960

Journal

publish any data on the growth of these 2 parts; hence I began compiling data on this myself. The picture "The Tug Trip" was fairly good. Another gray overcast day, however it was still & again the storm has not materialized. Several of the guys have reported seeing a seal on the ice hence of the morning. Douglas says that penguins were popping out of the water apparently to escape it. It is possible this was a leopard seal.

Dec 22 Cape Hallett, Antarctica.

Made a round of the skuary from 11 to 1. In the afternoon it began snowing - in fact it began about noon but got heavier a little later, it was still, mild & heavily overcast. I walked along the N. shore to the cliffs, climbed up above the highest penguin group & sat & watched for a while. This was the first time I had been here in a month at least. My routine has become deadly and this change was welcome. On the way I collected 6 penguin chicks, all small, for specimens. Wrote notes in evening. The movie "Desirée" was enjoyable.

Dec 23. Cape Hallett, Antarctica -

The skuary round was made from 10 to

Maher
1960

Journal

12, and after lunch I made a round of the nests in the penguinery. Put up 4 penguin checks before supper. After supper (in addition to going to the show) I wrote up my daily notes. Again it was an overcast day with a few snow flurries. Towards late afternoon the wind began to pick up & in the evening was blowing briskly, not yet a ~~gale~~ gale but a steady wind of 20 mph w gusts perhaps up to 40.

Dec. 24 Cape Hallett, Antarctica.

The wind continued to increase in force & was blowing a mini gale on this day. I only ventured out to make a round because of the blustery weather & because of the approaching holiday. I did write up notes & ~~put~~ managed to keep busy indoors. We had invited the entire base over to the quarters for a Christmas eve party. Donald & Colin spent a good part of the day decorating the place and also making candles for Christmas. The latter became something of a major indoor activity & involved melting down white candles, coloring the wax with Glad powders, mild & casting the new candle. All of the 23 & part of the 24 was spent in this activity

Maher
1960

Journal

the results were fabulous. Pooh created a "Christmas tree", a cone of yellow & green wax layers which with base was 15 inches tall; & Don a volcano — a broad cone of many colored layers cute in a large funnel. My major activity during this was to individually wrapp the shells & snow petrel specimens. After supper & before the party I made some (poor) eggnog & finally put on a pair of trousers & a tie for the occasion.

The interest in the party was heightened by several events which took place earlier in the day. The Dr. decided, after we announced our party, to have a tree decorating party of his own on this afternoon at one PM. This led to an unfortunate outbreak. During the party the Lieutenant had to issue an order regarding the use of the radio set & several men who have resented his tendency to run them closely exploded, one threatened to hurt him & a couple of others said some intemperate things the Lieutenant is reported to have used some unfortunate language himself.

A second fight broke out in the mess hall as an aftermath to this

Mahey
1960

Journal

There one involved George allen & the Chief-Adam Cosmanski. It wasn't much of a fight, & soon over but both incidents served to heighten tension in the camp.

The party went well. It lasted from 8 to 11:30 or so when a movie was proposed & all adjourned to the movie hall.

Dec 25 Cape Hallett, Antarctica

The wind increased in force during the night & blew with gale force most of the day. The sky was clear however & we had the first sun in days. All of us slept in late. I didn't get up until noon or so & I brought some coffee in. to the others an hour later & they were still in the sack. The rest of the camp was as sluggish. I saw few of them until supper time.

Dec 26 Cape Hallett, Antarctica

I made a round of the skuary in the morning & of the penguin colony nests in the afternoon. In the meantime I had also shaven my left hand to Colin Bailey. This was swollen on the outside & in the pinkey & had been for some days. It was increasingly painful to move & had begun disturbing

Mahey
1960

Journal

me at night. He suggested I see Dr. Kelly & after my return from the skiway when the hand had swollen further. He more or less forced me to. To make a long story short the Dr. decided it was infected & that it had to be opened. The operation was done at 7 that evening with local anesthesia & was finished in time for me to see the picture "Left Hand of God".

The operation was painless but trying, long because I was sitting in an iron folding chair during it & because a tourniquet was put on my arm to reduce blood flow. The latter was a most uncomfortable device & I was hugely relieved when it was taken off. I was so relieved in fact that I took it off while the Dr. was finishing the bandage. The hand throbbed during the evening but not badly.

Dec 27 Cape Ballett, Antarctica.

I woke up at 8:30 or 20 after a refreshing sleep. Don Douglas had given me a sleeping pill & then plus the codeine (?) & aspirin the Dr. gave me allowed me to sleep all night. There was no pain at all in my hand when I woke. The hand was bathed, irrigated, & rebandaged in the morning. I am supposed

Maher
1960

Journal

to take it easy with it so I confined my activities to watching penguins swimming along the shore & a stroll through the penguinery in which I picked up one skua egg incubated for 37 days & the head of a mummified seal. In evening in desperation I cleared up my back log of food items I had under my desk, perhaps not the right sort of stuff to handle in my open cuts.

skua egg incubation

Dec 28 **Cape Hallett, Antarctica**

A complete round was made during the day. After heating my hand in the heating pad for an hour & having it re bandaged I went around the nests in the penguinery. After lunch the nests on the far side were visited. This took most of the afternoon. The hand was re heated & soaked in evening during the show & bandaged afterwards. I wrote notes until midnight when we had a supper. Afterwards some-one proposed a movie and we went over & saw "Passion" with C. Wilde & & de Carlo Terrible!

The day was warm & sunny & calm, a really beautiful day.

Maher
1960

Journal

Dec 29 Cape Hallett Antarctica.

Cannot remember the day in detail though I am writing this on the 31. Several hours were spent heating the hand bath morning + evening. I did not make a round of the skuary though Swin took note on the hill-side birds when he was over there. In afternoon, since it was a warm still sunny day I went + took 2 rolls of pictures, 35 mm; one color + one black + white.

Dec 30 Cape Hallett Antarctica.

Made a complete round today during the afternoon. Morning largely spent soaking hand + writing notes. The hand was soaked again in the evening, the last time, thank-goodness, for several days at least. The day was still + overcast. Snow began falling afternoon + fell until late evening large puffy flakes. There was no wind.

Dec 31 Cape Hallett, Antarctica.

New years eve. By afternoon no word of any party had been given out so we biologists decided to push one. Brian + I saw Titus who agreed to throw one in USARP's name. It turned out to be

Maley
1960

Journal

the finest possible under the circumstances. Two movies were shown in the evening & while the first was on Brian, Douglas, Titus & myself got the punch, eggnog, & etc ready & the party got underway right after the second movie, about 11 PM. The punch was monstrously strong it was flavored with Lab. alcohol & I who flavored it put in too much. I thought this might have adverse effects on people but the contrary was true. One drink & people were gone, the party started in high gear & progressed rapidly. At about 11:40 the climax ~~occurred~~ occurred. Chuck Rogers attempted to move the table containing the food & drinks. Two legs collapsed sending everything to the floor. The crowd stood in shocked silence, I don't think I will forget the emotion charged scene of 20 + people staring open mouthed at a huge lake of 4 gallons of egg nog - the same of punch & various ~~[illegible]~~ eatables, glasses etc. I nearly had hysterics but poor Chuck was subdued for the rest of the evening. The mess was mopped up before midnight

Mabey
1960

Journal

by a crew braver than I & after a
noisy interlude celebrating the new
year (broadcast over the ham set) we went
over & made more punch. The party
lasted until I don't know when. I slept
at 4 AM, played some music for a while
& went to bed. At 8 AM I got up &
returned to find Sheldon & Joe Deacon
holding down the fort. Joe had just
swept most of the pipes out & was
making noises like he was going to
mop up but he soon staggered
to bed & I downed after a codeine
pill & 2 aspirin for my headache.

1961
Jan 1 Cape Hallett, Antarctica.

I got up a second time at noon,
still whoozy from the night before,
had a breakfast of ice cream (this was the
universal ~~tea~~ meal about noon at the
station) & went for a short round, all
checks were weighed & nests with eggs
were all checked. Notes written up in evening.

Jan 2 Cape Hallett, Antarctica.

The band is acting up again. I woke
at 5 AM or so with it paining & was
unable to go back to sleep. Inspection
showed no infection & the Doc decided
the pain was result of straining the joint

Mabel
1961

Journal

at any rate he put the forearm (wrist) into a splint. a wonderful development. I spent the afternoon watching nests 331 + 308 + again after the show I watched the same nests from 9:40 to 11:10. The day was warm, calm + sunny.

A Weddell seal was seen on the beach near camp this morning.

Jan 3 Cape Hallett, Antarctica.

Made a complete round during the day. In morning after taking care of Modoc + Gretchen I weighed the chicks on this side + after lunch weighed those in the shrubs + made a complete round. Wrote notes in evening. Also finally straightened out food notes of G + M there were confused by the fact that Don fed the birds for several days. I have now taken that over to the extent of keeping records + weighing everything + leaving just cutting to him. My hand has taken a turn for the worse. At the advice of Doc Kelly + Bailey I exercised the fingers during the day. The result has been that the hand swelled + began throbbing badly all evening + night.

Jan 4 Cape Hallett, Antarctica

New complications on the hand. ET

Mabey
1961

Journal

Bothered me all day + in the evening I was again put on the hot moist bandage routine. I got little accomplished except a 3 hour walk at ~~the~~ neste 331+308.

Jan 5 Cape Hallett, Antarctica.

Spent most of the day in bed resting the hand. This done on doctors orders. or rather suggestion. I spent the morning up while the hand dried out from last nite. The heating pad + bandage were on it all night + it looked a wreck when unbandaged in the morning. After lunch however it was put back on + I dozed away the time trying to read. What a day. I did get up for supper but that was all.

Jan 6 Cape Hallett, Antarctica.

The heat treatment had done little for the hand. The Dr. bandaged it up + offered the opinion that there might be a fracture involved. I am to go out to the Eastwind + have it xrayed. ~~Tue~~ In the evening he sprung a surprise on me. If no concrete diagnosis results from the Xray he wants to send me to NZ on the boat. What a blow. The head + arm still bothers me. I did make a round weighing my chicks but that was about all.

Jan 7 Cape Hallett, Antarctica.

Today I did a complete round of

Mahler
1961

Journal

the dressy in the morning. The afternoon was spent watching nests 349 + 11 over in the skua. The hand shows the first signs of improvement at last. Pain is decreased considerably + I was able to move the arms easily + with no pain. This is welcome. Word came through late in the day that I am going to Cape Adare on a one day trip; also the Dr informs me I may be sent to NZ. for treatment depending on diagnosis.

Jan. 8 Cape Hallett, Antarctica. Sunday.

Set all of the chicks weighed and also went around + collected all penguin remains I found at the nests. The accumulation was considerable as I haven't done this in a week or more. In afternoon also measured + recorded the bulk of the days catch. This unfortunately aggravated the hand a ~~bit~~ bit but I think was worth it. The hand in general shows no big improvement yet more I know 2 more days until the ship gets here to register a real gain, + determine for sure that Dr has decided + ship me out regardless of the diagnosis.

Jan. 9 Cape Hallett, Antarctica

With the aid of John Bailey I spent the morning measuring all my back

Maher
1961

Journal

Log of penguin remains & finished up a few pellets after lunch. Spent about 4 hours watching at nests 306 & 331.

Jan 10 Cape Hallett, Antarctica.

My hand continues to improve though not fast enough. I have been lucky though in that the ship has been delayed & will not now show up until the 12 of Jan.-three. Meanwhile the swelling in the hand has gone down noticeably & most of the pain is gone from it.

I made a complete round, weighing all chicks before noon & a complete nest round after noon. I watched at nest 204 for a whole afternoon but the birds seem spasmodic now than when incubating.

Jan 11 Cape Hallett, Antarctica

The only accomplishment of the day was a four hour watch in the shrimp from 1 to 5 PM. In late evening, also, I visited several nests in the shrimp & on this side also.

Jan 14 Cape Hallett, Antarctica.

The Eastwind, USCG icebreaker, arrived near Hallett on Jan 12. Their helicopter landed at 7:15 PM. & briefly gave Tom Ballard who had the closest time in the round

Mabus
1961

Journal

Jan 14. down pool the prize of 18 dollars. I had packed up in early afternoon & then made a visit to the dinary to weigh the 4 penned chicks over there. In morning I had visited the penned chicks on the side. I was sent to the ship on the first helicopter along w George Allen & Cat Lee. all 3 of us needed x-rays for some reason. D. Kelley came aboard later & pronounced the hand unbroken & uninfected. Reid Bailey & Douglas came aboard later, & all my gear was brought. The ship finished unloading at Hallett & we were underway by midnight. At 5:30 or 6 AM the ship was near adare. The captain meanwhile had induced me to shorten my proposed visit to 12 hours from the original 24. Accordingly Don Douglas & I were flown in on the first helicopter. On the way in we flew over the rookery at 1800 feet & I obtained a series of black & white shots, vertical, from which I hope to make a mosaic map. We landed at 7:30 AM

Ridley beach is large, 4 times larger I would say than Hallett beach. The objective I had in going here was & get a census

Mahes
1961

Journal

Jan 14

of breeding skuas to get an idea of how skua numbers viz a viz penguins compared with those at Hallett; also idea of timing of cycle to compare w Hallett. I took the S. half of the beach + Don the N. I walked the beach to the bluffs, climbed it to a broad shelf, a possible skua nest area + returned in a line 200 yds N of my first traverse. results were astonishing - there were no breeding skuas at all though many non-breeders. Don came back ~~with~~ with the same report. Another traverse through the central portion of the penguinery produced the same results. Then w Dr. Penhal (Sp.?) Don + I climbed up the hillside. Here we found our first nests widely scattered + located on outcrops. We climbed gradually from prospective nest to prospective nest + reached approximately 750 to 800 feet elevation. From here we saw no signs of skuas above + instead continuing we proceeded along the face of the bluff scanning down for more nests + descended along the N. edge of a large hillside colony. Dr Penhal had previously climed partway up + along an area N. of this + we had covered + found no

Mabey
1961

Jan 14.

Journal

nests. Hence we concluded that the skuas were nesting in small numbers in area of the cliff where nest sites were provided by the topography. I felt we had covered 2/3 of the cliff area not inhabited by penguins fairly well & that even considering that we had thus only gotten 20% of the nests a pop. of 50 nesting pair was indicated. I was wrong as we shall see. Anyway we descended the cliff & at the tent had a can of fruit. Donald & I shot 2 giant fulmars after lunch & I went off on another traverse through penguinery where I spent the next couple hours. About 6:30 we saw the ship approaching & soon the helicopter arrived.

The above is a bare resume of what was done at Adare. The following are a few impressions. The Adare rookery is enormous compared w Hallett. The area of beach I would judge to be 4 x that at Hallett. There are several large ponds on the beach which reduce the total area inhabited considerably. Penguins seem more densely & evenly distributed there are no large habitable areas free of penguins as there are at Hallett except along the beaches themselves. I noticed

Mahler
1961

Journal

Jan 14 along the N. beach near the point that a wide area here now full of penguins was obviously inhabited at one time. Nevertheless overall density is greater than Hallett. Also, the penguinary extends up the hillside in places to + on the top of the cape. The height of the cape is some 1000 feet. Not all of the hillside is inhabited, perhaps 50% of the total. There is one colony on the slope above a 400 foot cliff which the inhabitants have to reach by a long lateral trek over a snow patch.

The only birds we saw other than Skuas + Adelies (+ a few storm petrels) were Giant fulmars. These were first seen at the cape as the ~~boat~~ ship crept in towards the beach. A dozen or so, one white phase, were seen then. Don Douglas reported seeing 75 on the beach at Adare. Later in the day when I went over there were about a dozen.

Two Elephant Seal, a young male + a female were on the N. beach - both were in moult.

A great amount of kelp lay on the beach, particularly the N. side. This is in contrast to Hallett where I have seen

Maher
1961

Journal

Jan 14 none though Douglas says some will come in when the ice is finally gone from the beach.

One interesting feature was the ice buried in the beach along the N. shore. Great blocks 10–15 feet in diam were cast 60–80 yds from waters edge & were buried in gravel. How may these have caused the the great Chilean earthquake of last year, which caused tidal waves [illegible] at Hallett where it took out the ice in the bay when it was 18" thick

Cedar is interesting botanically in that Borgerunch (Sp?) & Priestley both wintered here the former being the first & ever winter on the continent. Here huts are still present. B. hut one & P. two others right beside it. One of Priestley's is intact but packed with snow & ice. The second has lost its roof—is consequently empty of snow & Borchgrevinck has lost its roof & one wall. There is much debris & stores about the buildings all quite interesting. This included bottles of lime juice (still good) bullets, shot gun shells, cans of tallow, barrels of bacon, milcans, & bags of charcoal briquets.

Maher
1961

Joseph W. Neale, Jr.

Journal

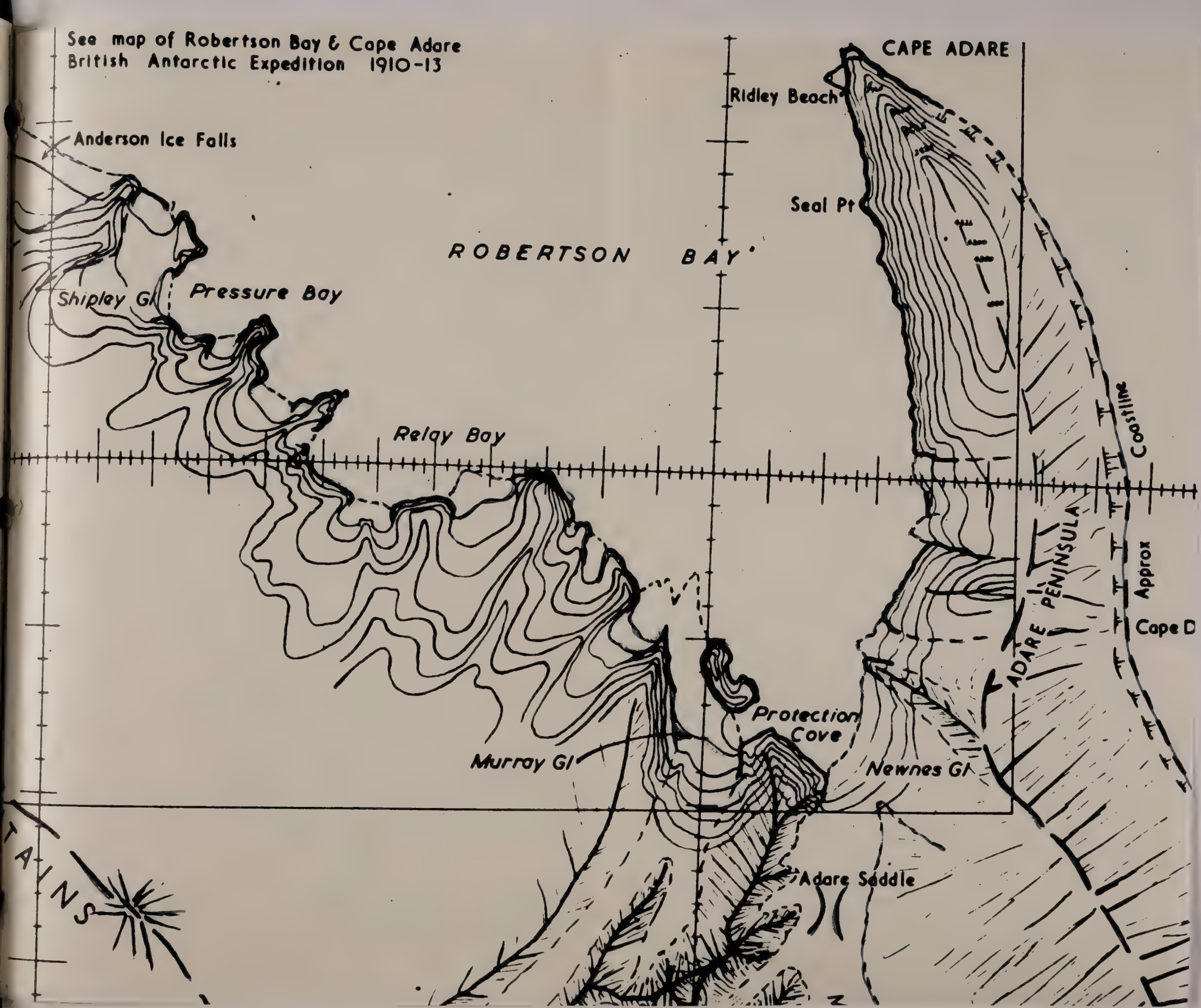
Jan 14

the (Captain), the information officer, & one other member of the crew came ashore when we were taken off. The ship put off at once for Hallett, at 12:30 or so we were 7 miles off the land & the helicopter was loaded. Because of lack of ice pans however they were not allowed to fly until we were only a mile or so from the land. Again the pilot allowed me to take a series of shots. Light was dim but I hope the pictures do come out.

Today has been wasted. I woke up at 10:30, fed the skuas & after lunch read my mail. That is the only vital accomplishment. This evening word came that Brian Reid had discovered a skuary at Adare, presumably on top of the cliffs, and had found 120 nests. So ends a perfect day.

Adelie penguins were on the average a week ahead of those at Hallett. They were also much more aggressive & inclined to attack & flippers one ~~stays~~ from distance of 15 feet or more.

Lt, jg. Tom. H. Ballard
HU-4 DET 73
USCGC Eastwind
FPO NY, NY.


See map of Robertson Bay & Cape Adare
British Antarctic Expedition 1910-13
CAPE ADARE
Ridley Beach
Anderson Ice Falls
Seal Pt
ROBERTSON BAY
Shipley Gl
Pressure Bay
Relay Bay
Coastline
ADARE PENINSULA
Approx
Cape D
Protection Cove
Murray Gl
Newnes Gl
Adare Saddle
TAYNS

Mabey
1961

Journal

Lt Ballard was helicopter pilot, interested in biology, requested picture of rookery.

Jan 15 Cape Hallett, Antarctica.

A complete (almost) round of skuary was made during the day. All chicks were weighed, penguin remains collected from nest areas & a round of all nests in skuary was made. Nests on this side - in penguinery, - other than penned ones were not checked. The day was warm & sunny in morning & afternoon became breezy in late afternoon & clouded over in evening

Jan 16 Cape Hallett, Antarctica.

Snow was falling when I got up large white flakes drifting straight down. There was already an inch or so on the ground & buildings.

The morning was spent cleaning up the mess of penguin remains brought in yesterday. A round of the skua nests in the penguinery was made after lunch. The wind was coming up by this time & for the remainder of the afternoon I developed 3 black & white films including the aerials of adare & Hallett which came out well.

Maher
1961

Journal

Jan 17 Cape Hallett, Antarctica This day really spent doing little. Wind was blowing in morning the velocity had dropped & it gradually died out during the day.
The only real accomplishment of the day was finishing up the egg I had collected. Blew all remaining, packed all in cotton & crated them in a small box.
Book: ANARE Outposts Antarctica Outpost by Phillip Law & John Bickerman Oxford Press 1957

Jan 18 Cape Hallett, Antarctica.
I clear sunny day. A complete round of the skuary was made in the afternoon & all chicks were weighed, those in the penguinery before lunch. In the evening Modoc died, his death "shocked" the camp & full military honors were provided but not actually carried out.

Jan 19 Cape Hallett, Antarctica.
Snow was falling heavily when I got up this morning. Small pellet-like flakes that were coming in straight down. It had been falling for some time so there was an inch or so on the ground when I stepped out. I put up Modoc in the morning & 2 other chicks I had had frozen in the evening

Maley
1961

Journal

Because of the dark overcast + snow which fell all day I didn't do any of the picture taking I had intended to but instead banded some skua chicks in the skuary + brought in the youngest of the 2 chicks at 72. This chick is about a week old.

Jan 20 Cape Hallett, Antarctica

Fletcher was killed + skinned in the morning. Her autopsy is summarized in the spp. account. The most impressive feature was the fact that both of her tibia had broken spontaneously + were partly healed, though all her bones were very fragile. She was a he it turned out. A round of the skuary was made in the afternoon + 2 more skins put up in the evening.

Jan 21 Cape Hallett, Antarctica.

Snowing heavily in morning, with a slight breeze blowing. It looked for a time as if we would get a real blizzard out of it but it soon let up + snowed lightly off + on all during the day. Weighed all of the chicks in the field + collected the ~~chick~~ food remains from the nests on this side. Those, ~~nests~~ on the other side have so ~~few~~ few food remains + pellets that I can let them go longer without collecting. Skinned out the adult of nest 35, which

March
1951

Journal

clean up the back log of skinning with the exception of the giant petrels & one bloody penguin.

U. S. Ex Bureau
24th & M. Street
Climatology
Washington, D.C.

Dan Lee Foster
Loudonville, Ohio } Pictures of Adam

Jan 23 Cape Hallett, Antarctica:

Wind came up suddenly yesterday evening. It blew all night at perhaps 25-30 miles per hour. It was cloudy & some snow fell. This lasted most of the day, though the wind died during the afternoon. In late evening it was calm & clear. I spent the day indoors skinning the giant fulmars from Cape Adare. Two were skeletonized (the head of one went to Douglas) and two were skinned.

Jan 24 Cape Hallett, Antarctica.

A clear sunny day - at least in the morning. It became partly cloudy afternoon but remained relatively calm & warm. All of the pinned nests were mapped before lunch & chicks weighed. After lunch I ~~had~~ made a round of the "upper" bay

Mahlen
1961

Journal

of the skuary. Most of the chicks were banded in the process. Lolita (a male) was skunned in evening + one penguin — a gentoo - also.

Jan 25 Cape Hallett, Antarctica

Clear, calm day. Checked "bottom" half of skuary in morning, banded 24 more chicks which leaves a few still to be banded. Took 300 feet of movie film in afternoon + also did recall spent some time watching a Leopard Seal on an ice floe + even took some 25 feet of movies of it. These were taken at some distance and will show heat wave distortions.

It began snowing about supper time.

Jan 26 Cape Hallett, Antarctica.

It was snowing heavily in the morning when I stepped out. The snow continued, though at less intensity through the day. In the evening the wind rose to mild gale proportions + the snow again became heavy. The only accomplishment of the day was the skunning of 4 penguins, 2 ad. + 2 well grown chicks. The former were salted.

Jan 27 Cape Hallett, Antarctica.

The snow had largely ceased by morning

Mabey
1961

Journal

Jan. 27

but the wind was still blowing, a steady 25+ mph with gusts to 30 or 35. Snow flurries fell intermittently during the day. Pete Martin brought in a Storm petrel killed against the science building on the evening of the 26. I checked the antennas about to have no hope there would be others but found none. The penguin chicks were all huddled up + because each tried to get into the wind shadow of his neighbor their huddles became long streamers running with the wind. On the slopes of the hillside the horizontal strips resulting were striking. I spent a little time taking Bl+w. pictures. Checked a couple of my enclosures. They were drifted over + the chicks had gotten out. The nearest one had a penguin trapped in the wire - an adult - which I brought in as its leg was badly wounded. This was killed later + skinned in the evening. In the afternoon I killed 2 penguin chicks + skinned them out. The wind died about midnight - or at least died down.

Pete Martin reported 3 leopard seals swimming along the N. shore in evening.

Maley
1961

Journal

Jan 28 Cape Hallett, Antarctica.

The day was clear, sunny, a slight breeze was blowing in the morning & this continued all day. I spent the morning scraping 2 penguin chick skins & finishing putting them up. A complete round of the skuary was made in the afternoon & 14 or so chicks were banded. This seems to wind up the banding almost. One chick I did not band was one which flew off at my approach, the only flying chick I have seen so far.

Emperor penguin chick

Jan 29 Cape Hallett, Antarctica.

Sunday. Made a round of my enclosures clearing out the snow & putting the chicks back in - at least those which had escaped. The day was cloudy & a breeze sprang up in mid afternoon. Light snow fell.

Jan 30 Cape Hallett, Antarctica

Not much accomplished today. I weighed and measured a series of 10 full sized chicks (penguin) & killed (w help of DSD) 6 adult penguins. Skinned out the chin-strap penguin & three of the adult adelies.

Chinstrap penguin

Jan 31 Cape Hallett, antarctica.

Skinned the last 3 adult penguins & scraped & salted 2 of them. There is a road block in the program in a shortage of salt.

14 Feb
1961

Journal

wind

The day was sunny with a 15 to 20 mph wind blowing. I made a quick round of the shag nests on this side & walked over to the skuary, primarily to get photos of some of the chicks in B & C.

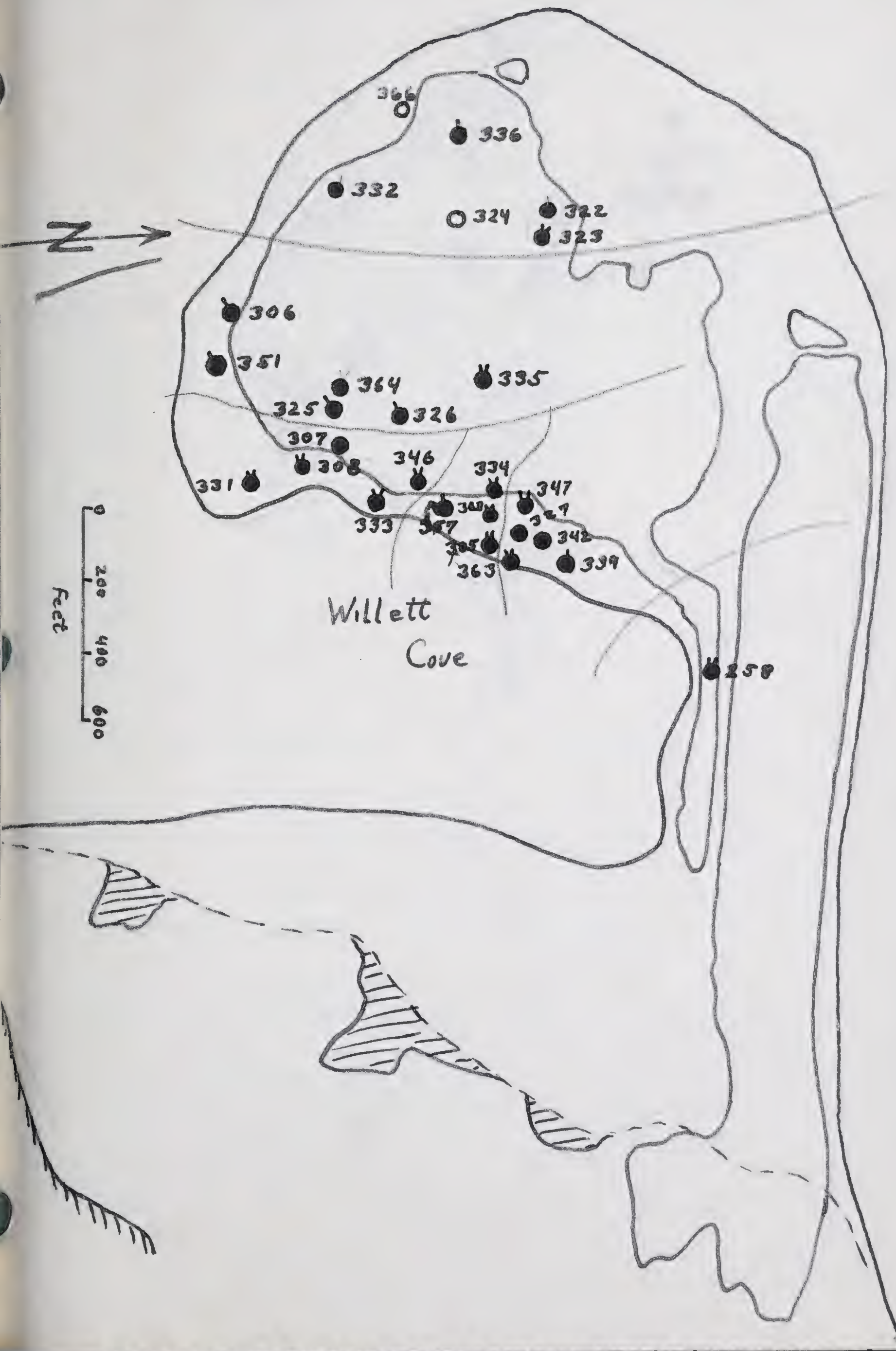
true local time of check (Dora)

In late evening walked along N. shore checking for Chinstrap penguins & /or Leopard Seals. Saw one Weddell Seal swimming along the shore. The wind was still blowing about 20 mph.

Feb 5 Cape Hallett, Antarctica

Sunday. I haven't made an entry in several days I see. No matter nothing much has been missed. I have skunied out, scraped & salted the batch of adult penguins killed. Made one round of skuary weighing penned chicks, packed up and the 50 lbs of prey items remain which await processing. Yesterday afternoon which was still & sunny I took movies of penguins swimming. The first good day in some time.

Also Brian & Colin arrived back from Adare about 6 AM on the 4. Most of the camp stayed up until the ship came many because they were going out & visit the dentist. I retired at 6:30 & 20 Adv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342
339
363
250
Willett
Cove
0
200
400
600
Feet

Willett
Cove
0 200 400 600
feet

Mabey
1961

Journal

the camp was pretty quiet most of the next day.

Feb 6 Cape Hallett, Antarctica.

Sunny but windy day. Wind of 15 to 20 knots blowing. Made a round of the entire skuary during the day. Put up two Wilsons petrels shot by Don Douglas. Nuts about it.

Feb 8 Cape Hallett, Antarctica.

Dont know where the past days two have gone. I shot members of several pairs I watched earlier in the season. This was done on afternoon of the 7. Spent part of evening & this morning skinning & salting the skins. Made a round & weighed penned chicks in afternoon. Brought in & killed chick (02 at next 307. This chick has been crippled for a week now, unable to stand or walk.

Tagged chick #307

Feb 9 Cape Hallett, Antarctica

Beautiful still clear day. The number of penguins continues to precipitate decline. The number of skuas also seems to be declining; more are seen out over the ice ~~Bay~~ in Moubray Bay. I took movies of skuas feeding on a penguin carcass (which I supplied) & also waited on north shore hoping to get shot of porpoising

Wilson's petrels

Skuas feeding

Maher
1961

Journal

penguins to no avail though it was so warm in the sun when I was out of the wind that I had a nice nap instead. Copied my survey maps in afternoon

Feb 14 Cape Hallett, Antarctica.

Continued measuring inter-nest distances in the skuary with the help of Joe Dessent. Spent the morning working in Bruno North part of the skuary + got most of it done. Afternoon was spent mostly talking but I did check the nests on the side + weigh my two remaining chicks.

The week end was a lost one. Saturday night was a party for Bernie Pepe + Seabee who is leaving on the arrival for McMurdo Sound. Sunday the place was pretty hung over but everyone managed to make it up by 2 PM for the N+D softball game between civilians + Navy. The cook broke his arm in the first inning - by a fall while running the bases - but this hardly slowed the game. Five innings were played; score was Navy 22, Civilians 19.

N+D = Navy + Seabees

Maley
1961

Journal

Feb 25 Address of: Robert B. Krueger
4611 Sherman Street
Denver 16, Colorado
Forward Seal skin to this addres.
Krueger gave me 5.00 for postage

Mar. 6 Cape Hallett, Antarctica.

Finally made the trip by helicopter to the petrelery. The trip was set up for 4 days ago but the wind storm which came up that day prevented the flight. Arthur Ford USGS geologist, Bruce Ford + myself were the participants. The trip was originally scheduled for 5 people, then 4, + finally at take off the pilot cut it down to 3. Bruce, Don + myself drew straws + Donald lost out. We left here at 10 AM + were allowed 4 hours on the ground there. The chopper returned at 2:30 + pick us up. We were landed on a level spot in the saddle behind the Adelie Penguin Rookery. Details of our doings are given in Bruce's account + Don's account. Returned to base by 5 PM. Hugh gave black + white pictures of the base as we approached + several of snow petrel chicks in nest

Maher
1960

Journal

carries

Mar. 8 Cape Hallett, antarctica.

Things have again taken a turn for the worst here as far as the unloading program is concerned. Yesterday the 7 they started bringing in fuel drums by helicopter. By using 2 helicopters one of which carried one drum and one two, they managed to get about 300 drums ashore in one day. Rumour has it that method of unloading all the fuel scheduled to be left here — 4 years supply - the aim is to get enough for the year ashore + 1000 drums + then depart. Today things did not proceed as well. The flights were fewer + only about 200 drums or less were gotten ashore. Flights were suspended in the middle of the day when snow began falling + visibility was reduced. Boats could still not be gotten ashore because of the swell. During late afternoon the barometer began falling + about 5 or so the wind began to blow in an hour it was over 20 knots gusty, by late evening it must have been 40 knots in gusts to 50 or 60 It looks as if all hopes of landing fuel

Maher
1961

Journal

well here & be abandoned for the day.
Turned 6 petrol chucks on the 7 & spilled them & dug as fast there on the 8. That about the extent of my biological efforts.

April 11 Berkeley, California.

A brief resume of events subsequent to the last entry follows. On March 10 AM we were informed that we should report on the icebreaker late that afternoon. All of our gear was then packed. A hander was acquired & the crates were handed. This plus numerous last minute details took longer than expected and it was not until late evening that we all said our last goodbies and were driven to the landing area by Kreiger. The last unloading was being accomplished by bringing M boats in to the top of the dock a bit of shore fast ice which projected into deepwater there made an adequate dock. We embarked on a boat with all our gear & were taken to the Edisto.

The ship did not depart until late evening the following day March 11. I stood on the fantail & watched Hallett fade into the gloom, a single light gleaming faintly was all that was visible of the last.

Mabey
1961

Journal.

April 11 The trip north was rough. Icebreakers are none seaworthy I conclude for the first 3 or 4 days the ship rolled & tossed badly. It was so rough that I couldn't sleep and most other passengers were effected the same way. All assumed a haggard look those days. Meals were served standing on paper plates. The sea did moderate finally & the last 3 days to New Zealand were very ~~calm~~ pleasant. Charles Keeler whom I last saw in Barrow several years ago when he accompanied me to the Iwan Liner on an over night trip was on board. He was the navigation officer.

We arrived in Lyttleton Harbor on March 17 late afternoon. Ed Goodale of USARP met the ship. Keith Wise was along with him.

I departed New Zealand on april 5. Originally scheduled for departure on march 31 but delayed by the plight of the icebreaker in McMurdo Sound. The Edisto was sent back down to retrieve a barge loaded with aviation gas which had broken loose. Weather conditions were such that the attempt was abandoned. The admiral however decided to remain on hand until it was out of trouble.

Maher
1961

Journal

April 11 When we left on the 5th. The admiral remained behind anyway. Illness of a Russian scientist at Byrd station made a flight to the continent necessary and he remained behind for that. Also as of that date the Edisto was still down there — near Cape Adare struggling north with one screw damaged. I presume it has gotten back alright as no word has been seen in the local press.

The flight to Honolulu was made with a one hour stop at Canton Island. We landed about 10 AM on the same date we left N-Z. The flight took about 24 hours. Spent 24 hours in Honolulu. Much cooler & less humid than last stay. Hired car & Donald Douglas & drove about a little, so I ~~saw~~ did see something of the island.

Flight to California took 10 hours We landed at 2 Alameda Naval Base. Dick Halmos & Dave Mullen met the plane.

Fin.

Maher, W. J.

1960-1961

Species Accounts

Antarctica

Maher
1960

Aptenodytes forsteri

Oct. 31 Note from Robert Thompson, Hallett station chief.

Oct 10. - Emperor penguin captured near spit.

Oct 13 - Emperor banded. #66405

Oct 25 - 61 Emperor penguins counted near spit

Oct 26 - Over 30 Emperors near spit (end R. Thompson note)

Oct. 30 Total of 32 passed station today. Ten were in a group at 1 PM & came up to station. Two seen late afternoon out by pressure ridge. Four in group strolling past station at 9:30 PM + 16 more in group at a distance at the same time.

Oct. 31 Three Emperors walking along the sea side of the adelie rookery were caught + corraled in the evening. Later the boys saw some more + wanted to band some. Two more were corraled - a ~~total~~ of 5.

A total of 24 were seen later in the evening of which Don D + ~~Ken~~ Bryan banded 17.

Nov 3. None seen since the above.

Nov 9 7 Emperors showed up today they were standing in a tight group at 9:30 AM

Maley
1960

Aptenodytes forsteri

about 300 yds off of the camp. Judging by the snow they had been there for several hours resting. We photographed them & drove one to camp where it was bled for a blood sample & for a skeleton preparation.

At 11:30 the penguins were laying down in the same spot at which we left them.

Dec 3 - 7 penguins showed up near camp at about 9 this evening. The group contained what might be some subadult birds, 1 or individuals with none of the yellow & orange on the head & neck, though the salmon pink stripe on the bill remained. ~~Four~~ Four of the birds paired off & went through an interesting ceremony. They would stand close, usually facing, hang their heads & necks down limply & trumpet with the neck & head in this position. The trumpeting had an open brassy tone, like french horns blown at a high pitch with a contour like & volume . They waved then threw their heads up & sometimes both would flail their head & neck back & about in an apparently aimless manner. They would then stand straight & neck partly lifted & the neck inflated. After a moment they would repeat. I got pictures of this.

Trumpeted towards lake
Cry heard.

Mobile
1960

Aptenodytes forsteri

Dec 4. Two emperors seen off camp in morning. One there all afternoon. In evening 2 were standing hunched ten feet apart a few hundred yards off camp. They remained there without moving & were still there when I went to bed about 11 P.M.

Dec 6 1 emperor seen

Dec 7 5 reported by Dan Foster in A.M.
2 seen late
7 in evening. ~~Cautious~~.

Dec 8 8 emperors present in morning.

Males
1960

Pygoscelis adeliae

Oct 31 Cape Hallett Station.

The following are notes on penguins from Robert Thompson the station chief here since last year.

Sept. 10, 1960 first few adelie penguins returned to spit. (2).

Oct. 10, 1960 - 5 penguins
Oct 11, 1960 - penguin count 11
Oct 12 - " " 21
Oct 13 - Adelie count 131 at mid-day. Penguins observed in steady procession approaching spit from around Cape Hallett. Est. over 300 by evening.

Oct 14. Douglas returned (Ed Thompson)

Oct. 31 First egg reported by Gordon Cartwright.

Nov. 1 Check through rookery by Dr Falla, C. Bailey + myself in A.M. revealed 10 eggs seen by all of us A big influx of Adelies is still going on. They are arriving by hundreds every hour from around the cape over the ice.

Nov. 3 Penguins still seem to be arriving in reduced numbers. according to Bryan Reid there are also some, ♀♀, beginning to depart.

Mahey
1960

Pygoscelis adeliae

Nov. 4 Watched arriving penguins from shore slope near cape. Results tabulated are:

3:45-4:00	21-5-3-6-19-10-21	85
4:00-4:15	13	13
4:15-4:30	34-24-2-4-30	94
		192

Rate 4/256/hour.

At the same time 3 were seen walking back out to sea from the rookery. Five others apparently started out but turned about + came back in with some new arrivals.

First eggs

Dec 5 First penguin chicks were found on this date.

Jan 24 Skinned yearling #1713, general body moult occurring, at least quills of new feathers were growing + covered entire body. Important point was that chin + throat feathers re papillae of new feathers were not pigmented while those on head of similar age were bursting with melanin.

almost 2 years to adult plumage

Feb 6 Penguin number took a big drop last night. They have been declining steadily but a noticeable difference observed between yesterday + this morning. Those that remain are mostly chicks + few ad.

emperors departed

DSD found chick with white eye rings.

Mabey
1961

Pygoscelis adeliae

Feb 8 Penguin population has continued to decline very rapidly these past two days. Number now remaining perhaps 10% of original those seen in colony are mostly chicks. Very few carcasses are seen about, I saw 2 on walk thrum colony to point of land & 1 on return.

Feb 11 Pop. continues to decline 2-3000 birds a generous estimate of population today. Chicks continue movement to shore & out on to ice & hence away. Report of a Leopard Seal along N. shore in early afternoon.

While watching penguins along N. shore noted another such chick. Stood in water & didn't move so waves washed around it was swept out into sea once but struggled back - disappeared shortly after. carcass of young seen in water at same spot, partly eaten. This is third such chick seen. Two have been brought in by camp personnel. Symptoms have been, sticky mucous around eyes & mouth, "bubbly" breathing, listlessness. Inside the liver seemed spongier than normal & heart lighter in color with areas 1/8 - 3/16" diam in heart muscle very light in color giving sections a mottled appearance. Stomach

Mahey
1961

Pygoscelis adeliae

pebbles + bill. Lungs looked alright, no inclusions or obvious lesions.

Feb 19 Saw an adult feed one chick along north shore. Two chicks in close, prolonged, adult finally fed one not the other. Saw these chicks begging from another adult later.

March
1960

Thalassoica antarctica

Dec 1 This species was seen here for the first time this year today. A 30 knot gale was blowing since the night before from the SSW. The birds were first seen about 10 PM when a flock of 60 or 70 was seen just off camp in the middle of Edsel Inlet. Another flock of 30-40 birds was seen later & smaller groups of 5 - 15, or 20 were seen about later. I suspect that these birds ~~were~~ were breaking up into small groups & then regrouping into large flocks so the total number ~~about~~ about was probably under 100. A few snow petrels were with them.

Maley
1960

Oceanites oceanicus

Nov. 6 Hallett Station.

One of the Hawaiian boys reported seeing a Wilson's petrel last night flying in camp. He described it well, small, dark, & erratic flight pattern.

Nov. 21 On visit to cliffs across the bay saw no live wilson petrel but found the carcases of 2. One a fully fledged young bird was found with its head sticking from a small burrow the mouth of which was no more than 3×3 inches. Don Douglas found a downy young among the rocks at another point. Both of these were high up on the petrel cliffs near the top in fact & among the snow petrels.

Nov. 29 Saw one bird at the petrel cliffs today. Flying about one section of the cliffs 4-5 hundred feet up from the bay. It was quite attached to one small segment of the cliff face.

Also saw a fresh tail of one boys nest in the chimney. Brian reported finding fresh pellets with wilson remains in them.

Dec 1 Several seen late in evening flying singly - low - heading toward open water; 1 c NE.

Dec 4 One flew over rookery, low, heading out to sea

2

Mahey
1960

Oceanites occurrence

at about 3 PM today.

Dec 8 One flew ~~through~~ ~~always~~ ~~paralleling~~ at about 5 PM along hill slope, low & slope raped erratic flight.

Dec 13 Watching from door of lab at 12:10 to 12:18 AM during which time 15 Wilson petrels went by, all were heading NW E toward open water. They were flying singly & low though once 4 were seen at the same time in a widely scattered group.

Dec. 21 While on the shore slope above the base of the rock I saw a wilson petrel on 2 occasions flying back & forth along the slope. This may have been the same bird. At any rate I had the definite impression that the bird might be located along the slope somewhere but when walked it eventually flew out over the bay.

May
1961

Macronectes giganteus

Jan 23 The four giant petrels shot at cape adare were skinned out today. Two were adults (one sans head as at nest & DSD) & 2 were skinned

1717: General body moult. Brood patch present replacing about periphery Tail not moulting though coverts, upper, were being replaced. Primaries 4, 5, 6 were coming in 4 was smallest. <2 inches. (Primaries counted from outside in). 7, 8 + 9 were new

1718: General body moult. No brood patch. Primaries 3, 4, & 5 growing. 3 smallest. Remainder already replaced. Central 2 tail feathers ~~already~~ just coming in.

1719: General body moult. Brood patch present replacing at periphery. Primaries 4, 5, + 6 coming in as above. - Chick tail.

1720: General body moult. Primaries 3 & 4 coming in - Remainder replaced. 5 appeared fully grown

Males
1960

Catharacta maccormicki

Oct 31 Notes from Robert Thompson, New Zealand station chief at Hallett.

Oct 13 - 3 skuas, first sighting.
Oct 24 - 8 skuas
Oct 27 - 11 skuas.

(end Thompson)

Oct. 29 Scott Base, McMurdo Sound.

Saw 3 skuas at 2:30 PM. Flew along coast landed 100 yds from dogs near base. One more came by & joined them an hour later. Later while observing seals 1/4 mile away saw 5 skuas. I presumed this was the same group + one.

Keith Wise and another entomologist saw one skua on 3 different occasions on Oct 28 at Cape Crozier. This first one of year in McMurdo area.

Oct. 31 Hallett.

Spent 2 1/2 hours in skuary. Skuas sitting about in pairs. Once. Twice saw pairs take wing & fly off into + perhaps across the Peninsula. Saw one bird return & regurgitate food for its mate. No ritualized ceremony. The both appeared to briefly chase in a pose with neck arched & up

Maley
1960

2

Catharacta maccormicki

Oct 31 (Cont.)
this very brief and not seen in detail.
Much ground announcement with raised wing display. Call associated with it is very nasal compared to remarks. Must get a good description of this.

Nov. 1 Arrived at skuary at 9.15 A.M. within 50 yds of me there are 8 sitting & standing, 2 are associated as pairs the rest are isolated.

Strange skua flew over, 1 single & pr gave Challenge. Stand up Wings swept up & back head raised & mouth opened wide. Call. very nasal: ĕ ĕ ĕ ĕ ~~ĕ~~ typically on same pitch, falling at end. tone reminds me very much of the old compressor at home.

Challenge call

the call can rise & fall in pitch as delivered, can be uttered only 2 or 3 times or continuously for many seconds. Has a wheezy or aspirant quality, particularly at the beggining of each syllable.

Chase. Have seen 2 of these since I've been here. Two birds flying fast one closely pursuing the other, dips close pursued sinuses & avoids both so fast there is no swoop or pass possible. on second chase both flew out

Chase

Mala
1960

3

Catharacta maccormicki

over inlet ~~bay~~ towards penguin[illegible] there parted. One in glide up remnant of upglide
Other scanned along cliff here didnt see details.

9:40. Single bird swoop over skuary 2 prs + one single stand + challenge. ~~Kee~~ It lands. Other single bird comes over also challenged by one pair

9:50 Caught one pr. in last second of a choking. One obviously begging, & I presume in [illegible] this sort of posture launched with neck extended & head tilted up. Other standing tilted ↗, mouth parted as if trying to regurgitate.

10:00 left skuary

11:30 returned. 19 skua from one point near narrow end of skuary. Few obviously paired, one group of 3, rest single.

11:35 One pr flew — one directly towards base, other circled area of territory once then headed towards base.

11:40 One skua sitting on snow, eating snow. Took half dozen bites into snow & swallowed with open mouthed chewing they use for small items.

14 Feb 1960

Catharacta maccormicki

Nov 1 (Cont.)

11:50 Mild chase 2 birds flew from cliff - circled twice, amicably, one then landed near another bird on cliff. Other left, I didn't follow it. About 1 minute later bird who had been on cliff - drawn one of pair - flew 3 feet to rock & choked. Tail up, head down - uttered a choke call diff from announcement call. A tha - lighter - bird flew off.

Three pairs, including chase showed dimorphism in color - One dk smoked coffee w cream (darkish) brown - other yellower - splotchy - in aspect. Dark this

11:55 Pr on snow 30 yds away. Looking at something on ground. Separated one sat ate snow - poking bill into snow to get mouthful. One approached other in a begging pose, neck stretched, arched, mouth closed, soon deserted as other gave no sign. Separated.

12:55 Pr standing together. One walked 3 feet then into Frost begging choke arched appearance in back of neck. Other approached + went into same pose for few seconds then stopped. First stopped. They separated + at 2:20 left.

color dimorphism

Males
1960

Catharacta maccormicki

Nov. 2 Hallett Station.

Arrived skuary 10:15

took vantage point 25 feet up slope near narrow end of skuary. From here counted 31 skuas mostly pairs from a line run out from an alluvial fan about middle of skuary & its narrow end. There are some pairs on the slope also, the nesting area extends another 100 feet up the slope from where I sit.

Count of pairs of skuas

10:35 - 2 arriving birds greeted by challenge displays of pairs over which they flew

10:45 Third bird near second one greeted by challenge display and call. Stands next to "B" stands erect, feathers appressed with neck raised "bowed" 2 - bobbing in back of neck just as raised a little "B" walks slowly off at attention. "A" follows slowly & gradually lowers neck down & begging choke. The 2 stand together for 2 minutes or so. "A" with head down, (behind B) B finally walks off preceding A pose & head down & cocked sideways. A eats down

11:00 Spotted pair courtship feeding. One begging following "B" walking. Stopped on a snow patch. B brought up a morsel which A ate. Continued begging - pose as described above. Male uncal

May 1960

Catharacta maccormicki

jabs at "B"'s bill. B then stood tall & chased up snow mound which was eaten. B walked off few feet & sat. A. ate some snow & sat.

11:10 One bird just delivered challenge call on wing. Did this with wings almost horizontal in what appeared to be a normal glide position. Continued call as it landed then right into challenge stand. Joined by second flying bird both called, then stood, finally separated. One flew off, second flew & landed again.

Saw one bird land on ice hummock 100 yds out on bay & give challenge as it landed. No other bird about.

Another pair bagging as I wrote above. On bay ice few yds. from shore. One bagging, poking at mouth of other. Other head down trying to regurgitate, turning & raising head to avoid first bird. Both stopped.

11:30. One member of settled pair at Narrow end of skuary chased another out over bay ice. Actually chase so as to close gap between then glided around & returned. No suggestion of upglide or ritualized boundary display.

11:45 Pr. right beneath eating something together. Don't know if it was regurgitated or not. However both grabbed at & gave a momentary tug

Catharacta maccormicki

after which they both ate their meal. One left.

Another incident. Two birds close — a few feet apart — flew + called, glided in circle + landed 20 feet apart nearer the bluff than before. Both in challenge as they landed One flew 20 feet to a 3rd bird. Both challenge. Second 2 now sitting 15" apart.

Nov. 3 Hallett Station.

Arrived Stearns at 1:30 PM.

Pair in a little begging sequence. Heard them before I spotted them. They are well camouflaged. Again one, ♀? begging other standing upright, non-ritualized. Put head down once then back upright Both dissolved.

Few minutes later another pair were seen also begging. The one being majestical flew off.

First pair in repeat. Both standing, one walked towards other put head down + brought up food ♂ no preliminaries other ate it + just then repeated then separated. Low grunting noise accompanies the also abrupt whine (like dog + also like long tail) Ito hard + tell which bird is making noises or even if

14 Aber
1960

Cathaeta maccormicki

Nov 3 the noises are coming from the pair being watched. Another pair will meet through the ritual. Material brought up was a black oily looking stuff. Both ate snow afterwards. Sat.

Pr sitting close near foot of slope. Strange bird came in across inlet made low pass at one, circled around & came in for second then 3rd pass. circles 50 yds in diameter. Then made 4th pass & stumbled right back for a 5th. Landed 25 feet away. Head noise each time he mentions can't tell if he hit - he did - because he just did it again & hit rock instead with muscle laced & went off with leg hanging - made 2 more circles & dejection last circles he didn't come as low. His mate seemed armed always at one member of pair & always same one. Pr responded by challenge call but only one, the struck one raised wing in challenge display. All is quiet now. The pair has walked 10 feet to slope & sits yard apart - attacker sits alone where he landed 40 feet away.

2:10 Single bird flies in. Is unchallenged lands at S. end skuary gives challenge

Mabey
1960

Catharacta maccormicki

Nov. 3. display after landing. Sat.

A second bird comes in a while later - is challenged by a couple of pairs lands 15 feet from above, gives challenge display after landing.

Earlier saw a pair land, one before the other, both in challenge as soon as they landed. Was this to each other & the skuas in general.

One thing, challenge is given in head down & head up; in head up position the body is tilted back in facsimile of strut of cormorant

2:20 An observation which confirms above. Bird landed near another both in Challenge display. I noted that tail was elevated exactly as in strut. (actually tailed three) & head back. One then folded wings & was in perfect strut posture, held this. Other also slowly circled each other one raised wings again & then folded staying in strut. One they got challenged by nearby pair when they got too close - responded in kind. One of pair lunged at other & moved off last stayed

2:30 One bird in chase. Pair near S. tip of skuary. One bird in low chase call (Mewing!) & in posture head down bill open tail up

Males
1960

Cathartacta maccormichi

Nov. 3 — so that body is in line ↗ like so, calling turning. Finally ~~sat~~ sat on hand assumed a second + sat. Mate sitting 10 feet off did nothing. Seemed to work feet back in a backwards scraping motion 2 or 3 times as it settled, then with breast in hand. Check

2:45 — One pair in begging ↗ that and comes at base of neck + is distinct break in line of back. Other bird walked off. accompanied in beg call mē mē mē mē in rhythm ! !!! sort of; ~~see~~ saw mē with legs held together.

Several challenges observed one with tail held horizontal ↗ sometimes fluffed a little.

3:05 — Another duet. One member sitting stiles looking 6 feet away. Uttered mē mē call at regular intervals one a 2 second apart. other bird waved answer in same call at times but never moved. Looking bird finally sat.

3:10 — A pr pass flew off. Several pairs have flown off since I've been here sometimes only one leaves more often it seems they both go.

3:15 — One bird returned. Challenged big 2 single birds, alights next ~~to~~ one who at once stands erect. Ete mate? It preens

Maher
1960

11

Catharacta maccormicki

Nov. 3 3:18 Another bird arrives & lands is ignored. announces after he lands.

At the same time one lands next to another above me. Bird on ground announces as it lands then stops. arriving bird then announces.

3:20 Pr in 3:15 record. ♂ which had been present all along seen sitting as if incubating uttering a very mixed ĕ ĕ ĕ call intermittently pointing bill down ⟶ as he stood so. Other bird preens.

3:35 Pr. which strutted before. Unbanded bird (♀) walked towards other · assumed strut posture tail up wing pointed down part tail ⟶ etc. other retreats & gives challenge moves off. Both quiet a moment then unbanded repeats gets into strut then stiff legged tail up lowers head & legs ~~runs~~ right in front of other walks ~~about~~ about in front of it which turns to avoid her. Continues for a minute or so. Male bird (banded) begins uttering a different ~~a~~ a loud ay ĕ ĕ ĕ slowly & intermittently at first. then rapidly repeated. then mounts treads. ♀ remains standing finally squats. Male remains on flapping wings calling stops repeats while begins wagging tail from side to side but evenything stops right there. Gets off

♀ Strut

♀ Strut & stiff legs

♂ Attempts copulation

Idaho
1960

Catharacta maccormicka.

Nov. 3 3:45 while writing above pair above me goes at ♂. Heard cop. as first male was already mounted calling ĕ ĕ ĕ ĕ hoarse urgent quality to ♂. Female remained standing suddenly turned head up & gabbled at his mouth rising with erect posture at same time - This forced him off. She left erect then relaxed. He hopped on again & was forced off again 2 more times. Not completed.

3:50 Pr left beneath me. One member present. Second (banded) returns first (unbanded) recognizes & not challenge (neighbor does) but goes with leg posture as mate lands 10 feet away. Walk & flutter over to mate & begs again eagerly. Mate brings up morsel which is eaten.

4:00. Same pr. unbanded bird just flew off. Banded remains sitting.

4:15 Member of pair returns. Mate challenges as he lands. Neighboring pair then challenge. Mate walks over to him & he regurgitates a morsel with no preliminary. Then have a dialogue of ĕ's exchanged singly both in recipient choke. Both then eat quietly.

4:30 Bird came in high. Bird on ground challenged. Circled dropped down landed next to challenger who went mts arch neck

Mahy
1960

Catharacta maccormicki

Nov. 3 Begging posture as he touched down then ran to him with wings raised & immediately ate something he had regurgitated.

begging
feeding

Another bird came in a moment later w same reaction. And on ground challenged & begged as it landed. Arriving bird regurgitated in a moment & other bird ate. Arrival then flew 30 feet to neighbor bird which challenged then went into attack-beg posture. He walked off slowly & gave no recognition. Bird followed & they finally sat 4 feet apart. First bird he landed by sat 20 feet away.

beg posture
walking off
ignoring

4:45 One bird in choke. call ē ē ē uttered with a muted, moaning "beggar" "anxious" quality repeated at about 1 second intervals. Stood & turned about in one spot. Head down, neck shortened. Finally sat. No sign of mate. a pr sitting close by.

choke
& beg
sit

4:50 Pr left below. Unbanded bird has returned - banded ♂ mate challenged (as did 102 neighbors) & as it neared & landed. Banded ♂ stood quietly as it landed then sat. Returned bird landed 10 feet off then walked to 5 feet from other & stood.

5:00 PM - Left Swamp

Maher
1960

Catharacta maccormicki

Nov. 4 Hallet Station, antarctica

Arrived Skuary at 10. A.M. Prior to leaving camp I saw a pair of skuas copulate on the ice, 100 yds behind the mess hall. ♂ on ♀ who stood, ♂ called copulation call. ♀ reached up & poked at his bill 2 or 3 times without rearing up & unseating him. (former possibly a stunt indicating still antagonistic feeling towards prospective mate - displaced.) He finally dropped off. A few seconds later I saw that they were at it again this time ♀ was sitting. ♂ was successful 2x judging by spasmodic wag of wings as they appeared to make contact. Side wagging of tail just before contact seen.

Meanwhile back at the skuary. Have camera set near 3 skuas. The two sitting 1 foot apart & a 3rd 7 feet away.

10:50. Pr copulated at 5. end skuary. Complete. ♀ remained standing in what is best described as the hunched posture. Horizontal head with drawn bill. As ♂ made contact she again opened her bill & reached up at his mouth

11:35 Single bird has been sitting 30 feet from me all along. Another bird came, glided low over it & made

March
1960

15

Cathartes macconnelli

Nov. 4 a low throaty noise (say ă ă (as in "a") in back of mouth not throat with mouth closed) uttered say thus 3-4 times in about 1/2 second as it went by. Our bird responded by full challenge the first 2 times, then simply stood second 2 or 3 times finally after one went past. (passes only 2-3 feet from standing bird) it flew + followed around in a circle passing other bird so that it landed first. Same challenge as it landed other landed + gave same call ~~stood~~ uttered more rapidly increased tempo until it became the ĭ ĭ ĭ ĭ call of the pair in greeting. At same time it was raising head + breast + assuming a stud. Occupant attacked. It retreated. Stood, another stud, occupant attacked, gave full challenge (more of this) Both now sitting 3 feet apart.

Previously one member of another pair — the pair of which movie was taken who left had been before + returned. Sat for long time then it went to mate around by pose (movies) mate eventually moved off + closed, second had walked over, stood, then sat. Know of this.

Maher
1960

Catharacta maccormicki

Nov. 4 11:55 a few minutes later when a stranger bird flew over only the occupant gave challenge display. Second bird simply stood & called.

12:40 P.M. one bird in choke — choke call (a Die said) like dog whining, short ~~bark~~ syllable ~ ~ ~ like so. Anyway the bird came out stood right adjacent & gave full challenge. No other bird in sight tho there were 2 birds challenging from hillside 50 yds away. Bird A choked & pointed the posture very hunched w head down. Bird B stood gave full challenge call without wing lifted. Gave partial challenge call a couple of other times. Bird A not. Bird B not.

Choke call recorded

Sullen?

While watching penguins arriving near cape noted 2 skuas flying around together just circling ~~about~~ about, gliding and flapping. Later noted about 6 flying & circling over Willet Cove — strong breeze was then blowing. Have not made a note up to this time of the flying because it is difficult to separate just flying from what may be territorial defense skua & what may function in courtship. At times the flying birds remind me very much

Mahen
1960

Cathartes macconnichi

Nov. 4 of Ravens, the way they hold their head & its contour & the way the wings are used & held. This may be ritualized flight & I must note more of this in the future. Once heard a sharp shock wave from one above pulling out of a fast dive. Two were flying then. Typically when doing this the 2 birds will fly about staying fairly close, occasionally one or the other will drop to within 200 feet of the other from a position above but these are not "passes" & the feet are not dropped. This is also the way Bonaparte gulls chuckle were playing about together this fall at Barnum.

Nov. 7 Hallett. Arrived at Skuzzy 10:15. Took up position in same place used last time, a promontory mound towards alluvial fan.

Observed a bird flying together, made a dive together, wing horizontal, over skuzzy then flew out across cove & ponguinoy & did 2 more dives together then separated. One flew back & landed on slope above me.

Boat edge & 5- (#1) one bird in choke call ĕ or ŭ hoarse & made high in the throat. stood with breast & head down tail & hindquarters elevated then sat down. repeated 3 times, mate walked about

Maley
1960

Catharacta maccormicki

Nov. 7 a stood but did nothing. Both then sat.

Noted a third bird – member of pair next home on one side (1 or 2) land on the pro territory was challenged & responded as but with head definitely held so that bill was almost in neck feathers like so etc.

Two birds, possibly pr 1, possibly 1 each of pr 1 & 3 (N. of me) back 15 feet apart making incipient chasing movements + noise suddenly flew up + towards each other collided full breast on + came down challenged + remained apart. One moved over into #1 territory so I believe latter assumption correct.

A pr circled together over chasing, came down + circled, low, one landed, the other kept flying in 20 yd circle at 6-8 feet height passing over it. The bird made no response but stood with neck up + head on chin. A third bird landed, was challenged once both stood. as flying bird came over again the first one challenged it the second stood. The flying bird then flew low over the entire chasing was challenged at maximum + eventually flew over towards penguinery.

Maher
1960

Catharacta maccormicki

Nov. 7 Another companion flight. two flew about ~~rookery~~ skreaing together. Involved a chase when one fell behind on a turn - no pass but a glide up together both got going fast, set their wings & glided. Body is slanted & wings held as that dorsal part ⅓ sloped back a little

, &

the reminds me very much of raven. Anyway takes path of glide so goes slightly up rather than horizontal - not an upglide.) one bird landed 6 to me 25 feet near a sitting bird, challenge & both sat 3 feet apart. Other bird landed upon slope 70 yds away.

11:30 Pr near bluff in long mutual display. Both ~~in~~ in posture, ~~feet~~ crests of head not fluffed. call ĕ ĕ or ĕă, ăă very sibilant & hoarse. One bird very insistent did this continuously for minute or more other bird kept stooping raising head & looking about

Maher

Copulated

11:35 Same pair in copulation. ♀ remained standing. ♂ made it 3 times. ♂ remained aboard throughout ♀ raised head & jabbed at his bill about 3x in process. ♂ in continuous copr. calls, ♀ gave harsh guttural growl each time he made it "r r r r r r r"

Males
1960

Catharacta maccormicki.

Nov. 7 11:50 Pr # 2 which had been sitting quietly got up & flew toward congenery.
11:51 Cop. pr above flew off.
11:55 bird landed near second - 8 feet away emediately ran toward it in Food regurg pose ⤳ & regurgitated. Second bird flagged mou (mouth of latter part of this. Both then ate snow. Bird which regurge seems to clean bill in snow very emphatically.
Arrived back at 2:10, left about 20 to 1 (12:40) alt time above is 40 minutes slow.

2:20 Complete meet choke display by birds 60 yds. away on bottom of slope. Heard them in choke call. Both standing head to head ⤳ calling for half minute. Bird A took steps forward. B swung around 90° so they were: B then sat mournfully in the hole, A stood choked then walked off few steps. A then sat in hole stood sat again - flagged both times & remained. B 2 feet away choked & then sat.

2:30 Saw a flying bird announce on wing briefly as it came in for landing - did "V" glide for 10 feet or so then fluttered to landing still in challenge call

Maher

1960

Catharacta maccormicki

Nov. 7 One pr which just fed a feeling display after the skuary (2:40)

Copulation 3:00 Cop. of pair N. of meat lagoon edge. Male standing for 2-3 minutes calling ĕ ĕ ŏ n ŏ ŏ n nasal quality intermittent increasing temp/sometime, accompanied by raising wings which then become rapid + was cop. cry. ♀ stood horizontally in hunched posture but not quite flat submissive ♂ mounted a couple of times briefly ♀ sat once, took it standing the other times. When he mounted for good she sat, purred intermittently during act. Raised tail + seemed ready to complete, or did not seem ready, dropped off - they challenged each other + mate (moves of last, one typical).

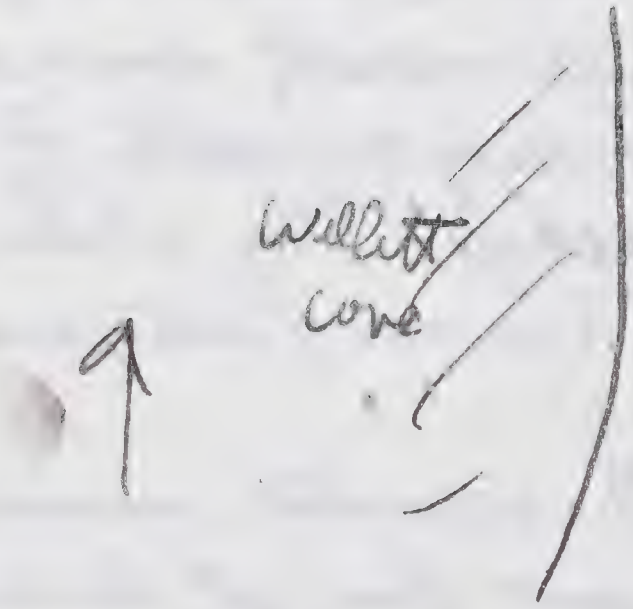
3:15 Pr 1 (or 2?) copulated - movies.

3:30 Pr above mate flew off leaded with by towards landing strip.

3:40 - Returned together

Cop 4:00 Another cop. the diff here was the fact that the ♀ was seen in food begging (this not known if complete) a minute or 2 before the male started his intermittent Cop call + build up (followed)

Left post at 4:15 + walked about the skuary. There seems to be a larger



θ = rock

X = ice

Mahey
1960

Catharacta maccormicki

Nov. 7 number of birds about than there were several days ago and the birds seem a little more tenacious. I found I could get to within 6 feet of some birds before they moved more off, walk off rather than fly. As yet the birds haven't manifested any hostility towards me except an occasional challenge that I think is directed towards me.

Nov. 8 Hallett.

Arrived in Stevens at 1:45. Stopped a few minutes on E edge of penguin rookery where 2 prs of skuas are located. Established myself in same spot as ~~took~~ skuas. 1 on (see map left) 20 feet apart. Strange skua - color + ring banded landed near one. It about challenge & respond. Second skua got up, stood tall + walked over to where I sat stood. Head tilted + shimmied wing coverts slightly raised chest kept out. Looked real tough. Intruder in bounded fr around retreated along to first pair member. Finally when second got to within 2 feet it flew off. No vocal sound on either part

2:35 Bird (banded) flew by w penguin egg held in beak. Landed on ice 10 yds from shore. Joined stone by a bird from the skuas. Challenged & not banded.

Malay
1960

Catharacta maccormicki

Nov 8. Second bird picked egg & began eating, they shared & taking sips alternately. Finally both (unbanded just) walked 3 feet & smelled ice cake & began eating snow. Both then sat side by side.

2:45 Two same pair seen in pair facing. Banded bird regurgitated once to other bird which was begging. It then wiped bill in snow a few times, other true. Stood & flew off. Second followed a moment later.

Witnessed one copulation of pair over near slope in which the ♀ stood up & gave the challenge display just as the ♂ reached during. Effectively prevented the act boy.

[Pg. 12]

Copulation of pair just S. of my spot & over by edge of cone. Several interesting points about this copulation. It began imediately after the ♂ fed the female. He at once went to Cop. calls, got himself well wound up, spread wings & mounted. Female sat down until he made contact. He remained on her & made contact 2 times while she stood. She sat again for the 4th round. ♂ remained mounted continuously. ♀ gave the churring note just before & during contact.

Malay
1960

Cathartes aura ssp.

Nov. 8 One aspect of 7 during cop. I had not mention. She stands horizontally with neck in & manage & beak flattened in the body by barely raising wing carpal a bit.

Later I also noticed that the begging bird has this flattened appearance when begging

I begin to think that the bringing of bill down in contact with lower neck & breast has a signal function. But looks like it doesn't. Have seen birds do this sitting when strange flies over - Sometimes then stands & attains challenge with head like this then raising head in challenge call. Check all this

One last display. 2 birds landed on ice 10 feet from edge of skuary. One stood in regurgitation pose & second bird then went into begging pose. Both stopped & challenged a bird overhead (begging bird first) & resumed.

Nov. 9 On the terminal moraine of the glacier north across the bay there were 5 & 6 pairs of skuas located. There is apparently a well defined skuary here as we found nests & even one dead adult bird. The area occupied covers perhaps 2 acres. The birds here must feed very heavily on whale petrel

Mabey
1960

Catharacta maccormicki

Nov. 9 as they were the commonest remain found & visited as found one nest cavity completely lined or imped with their bones. Also found a couple of snow petrel remains in the area. On the bay ice in front of the skuary ran an area a couple of hundred yards square & picked up the remains of four snow petrels (+ 1 wing in skuary + one juvenile in head party gone) I assumed assume from this that the skuas are feeding on the young chicks which must emerge from their burrows after the bay ice freezes in the fall.

Nest ringed + petrel bones

5 snow adult remains + 1 wing + 1 juvenile petrel

Arrived skuary 1:40, took up old post. Pr 1 to S. of post made up of RT Red & an unmarked bird in a circle red. band on one leg.

Nov. 12 04??

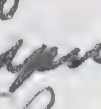
2:10 Pr. copulated NE of my position about 20 feet away, both unmarked or banded birds.

♀ definitely flatters herself does not when begging. Begging initiated by ♀ 9/0 (both live) triggered by the male beginning to regurgitate. ~~Head~~ After regurgitating ♂ ♀ had eaten she remained with head + body horizontal. ♂ began intermittent ~~begging~~ cry increasing in freq in intensity. As it rose he began spreading wings finally

Mabey
1960

22

Catharacta maccormicki

Nov. 12 Stopped off. I had a stern view. ♀ flattens self by spreading wings a bit, including scapulars so she looks  from rear. She again gave low-guttural noise at contact. ♂ was fluffed up in body feathers through performance. Remained up. all went forward and when he gave it only occasionally. Contact 4 or 5 times.

2:20 two birds in very loud swooping dive, flew along glacier front circled back flew + glided together then separated, one landed on hill one continued out landed next to another about far as I could see slope.

2:22 Cop pr. above. Bird flew up ♂ in full challenge, ♀ in challenge call ~~to~~ only

2:40 RT Rd mate flew off.

3:05 One skua flew to skuary & penguin egg in bill - landed up slope.

Pr. W of me in Cop. ♂ & ♀ 20 feet apart. ♂ flew + fem. she begged he regurgitated then began cop. call - broke off walked 4 6-8 feet + doked (Kalachoma). ♀ walked away. ♂ followed finally they copulated. Sat. Male walked + doked once then sat.

Cop pr of 2:22 entry bird seen sitting on snow patch. ♂ got up doked 10 feet away, sat in bowl

May 1960

Cathartes aura ruficollis

Nov. 12 ♀ stood stretched one wing out. Then sat quietly

3:15 Group of ♂♂ flew low over. Both announced. ♂ elicited display call. ♀ got up & began walking to him. She sat 2 feet from him. He continued, she got up walked both looked of very excited all as she approached. He moved over & she sat in nest. & then sat. (Bl & white pictures)

pictures.

A moment later they challenged, once again the ♂ gave full challenge, female only call.

At a more distant territory the pair was present. A third bird landed. Both displayed at him. He stood his ground & walked off as they came toward him. Finally flew. Point of this is the posture he assumed vis à vis the displaying birds he adopted the Upright head & neck tall & feathers sleeked. Body gave aspect of attention & tautness wings at carpal joints held out just slightly. He oriented his body so that generally, except sometimes when they forced him to move he was facing them at 45° & He even sidled away from them oriented that way or unless they rushed him. Saw no "turning away" of head.

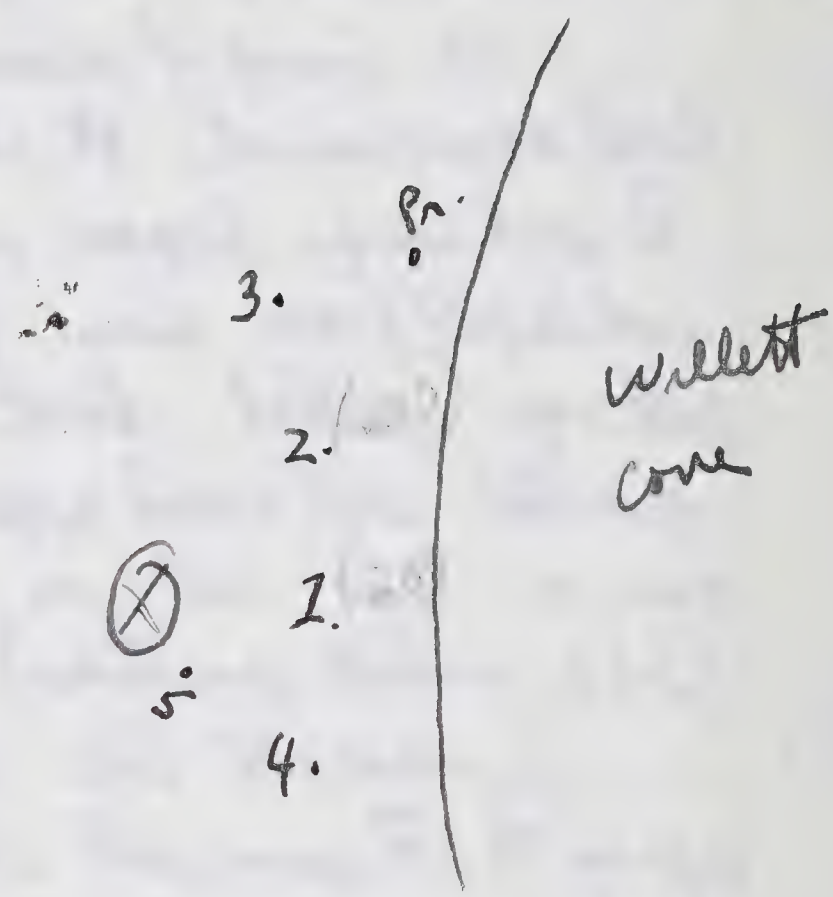
301
5 = ~~206~~

4 = 12

3 = 42

2 = 230

1 = 204



1 = Rt + Lft Yw-Or } 204

2. = Lft. Yw-Bl } 230

3. = { Lft Yw-Bl unmarked } = 42

4 = { a) Lft Blue b) unmarked } 12

5 Single unmarked band (metal band on left leg.) [~~206~~] → 301

Maher
1960

Cathartes aura aurantiacus

Nov. 13 Arrived skuay for observation 3:35 PM.
Pr 204 At 1/w-Or at mound. Lft Yw Or joined at 5 minutes late. Latter then walks 4 apart N. of me — is swooped at by Lft ~~Yw Bl~~ (← Mab)
Pr 230

3:50 Left Yw-Or leaves toward roosting. Flew back to mate on mound a few minutes ago. Has been out of sight on far side of mound.

Pr 230 Pr ① ② announces. Only Lft Yw-Gr raises wings

Skua flew over w something, egg I think, in bill - being mobbed by 4 others - they followed him 'til he landed on hill & mobbed him on ground also.

Noted individual to W. of me — give challenge. Definitely put bill on breast as he began display then raised head as he raised wings & the time he stood w it to challenge put bill on breast & then dropped.

4:12 A good aerial display. Two individual flying, gliding & diving together, one landed on slope high, second landed near a bird which displaced & chased it. Attempted again then another, a third bird flew up, they circled out & glided together. One then landed below the other finally landed next to another skua

Hailey
1960

Catharacta maccormicki

[204] Nov. 13 4:45. Lft yw-Or returns. Rt Yw Or, challenge display as before, then responds w challenge display. Just noticed also that pair #2 has left. (4:15)

230

4:20 Unmarked bird flies low over Rt yw-Or. Lft Yw-Or sitting 20 feet N. Rt gives no response. Bird returns second time Rt gives head + neck + puts bill down

like this (post ?) = makes no sound other bird doesn't return. Lft no response at all.

[Pr 12] Pr 4 (see map) Lft Blue + unmarked copulated on ice of cove 50 yds from shore near a penguin body they have been defending + feeding on. (I dropped it there the day) Lft blue returned to territory + sat a long time, mate finally joined it (both challenge). Lft Blue flies out + chases bird from penguin returns to ter.

4:45 Lft Blue + mate fly out + chase bird out which lands at penguin. Lft Blue just make pass at other bird 100 yds out + returns. The pr did this once before also - chased for 100 yds or so no pass.

Make
1960

Catharacta maccormicki

Nov. 13 4:50 Lft Yw-Or walks past Rt Y-O 30 feet to position N. of me 30 feet, near small snow patch - gives occasional choke call, ~~makes~~ as if to choke Then sits down

5:10 Rt Y-O - flies 20 feet & lands 20 feet from Lft. Walks slowly towards Lft. takes time, meanders, pokes it bill at ground, picks up bit of feather etc (or shell) at 7 feet Lft gives one little call & Lft sits 18" from Lft

[Fr 230] 5:25 Lft Y-~~Bl~~ returns lands on Cone side of #1's mound

5:27 Saw a food tug on snow slope. Heard the begging call then noticed the tug - both with wings raised as they pulled the food broke & both at once at their part (ensuring both got a part).

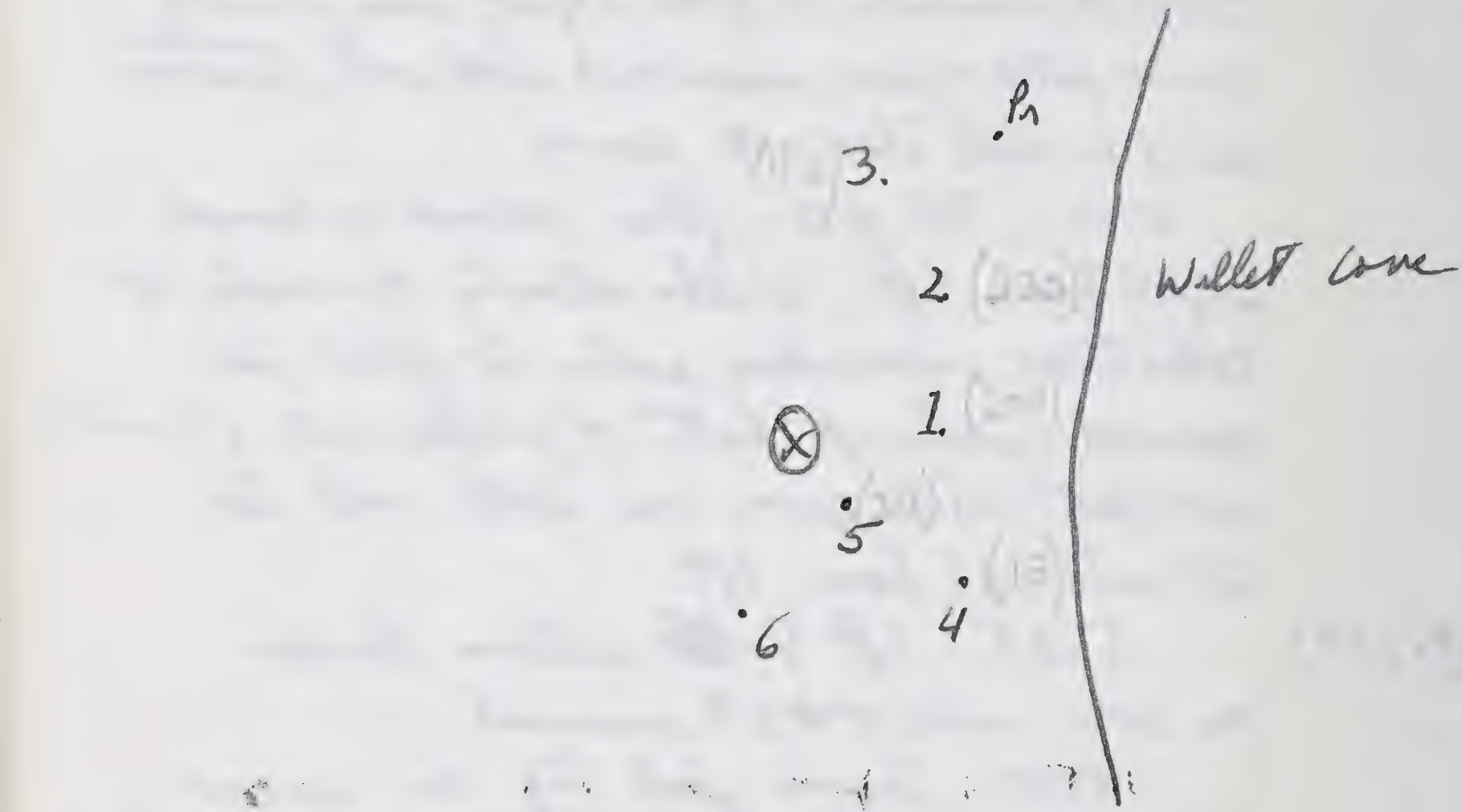
Food tug

5:35 left slowly.

Fr 301 Unmarked skua sitting N. of me 20 feet during most of watch left once & returned a short time later w a penguin egg. ~~Dropped~~ Landed on snow patch put egg down & hit it 2x w his beak before breaking through. Then ate contents & sat down near me again.

Breaking egg

Nov. 14 Arrived skuary 1:40 PM. Rad approached
301 Bird 5 (as may) was seen to fly in and



Pn #	Temporary # + mark
204	1 - Rt Y-O 4t Y-O
230	2 - 4t Y-Bl 4t Y-Or
42	3 - Rt Y-Bl ?
12	4 - 4t Bl. ?
301	5 - Single unmarked, banded left foot
	6 -

6 { Rt 4t O-Y unmarked

Haley
1960

Catharacta maccormicki

Nov. 14 land, he was carrying a penguin egg in his bill which he proceeded to eat (the egg). The egg was frozen hard & he smacked it to piece & ate it in chunks. This bird was here yesterday afternoon, is single as far as I know he ~~was seen~~ brought in & ate a fresh penguin egg yesterday & there was then one other skua on the territory that may be his.

Lft Blue is on territory (4), he was absent yesterday evening

Lft Yw-O is present by snow patch

1:55 Lft Y-Gn & Lft Y-Bl arrived, challenged after landing, are now 1 foot apart, one sitting, one standing.

Rt Y-O. Rl & white pictures of it in bill down display. Given without sound when another skua came by about 12 feet up.

2:15 Lft Y-Gn & Lft Y-Bl standing one (Chartered aluminum band) regurgitated other (Lock on band) ate piece. Standing

2:17 Lft Blue & mate on Ter. Suddenly flew to dead penguin 60 yds east chase of pair which has been feeding there.

2:32 Lft Y-Gn & Lft Y-Bl flew off towards penguins. Y-Bl was last to leave & so had already left.

Penguin
-87

Rt 2-04

Rt 2-30

Rt 2-04
Bill down

Rt 2-30

Lft Y-Gn
Red band on Rt leg

Lft Y-Bl
Red band Lft leg

Mahey
1960

Catharacta maccormicki

Nov-14 2:40 (♂ on ♀) land walks & mate, copulates then walks off 10 feet attacks chicks call occasionally, chicks momentarily react. Partner stands without moving. ♂ eats finally walks over slowly & sits 3 feet from ♀.

2:45 ♂ ♀-♂ moved 12 feet east. Has been here alone since I arrived.

[301] #5 sitting hasn't moved since he ate egg.

2:55 Just witnessed a furious fight. Involved Bird Both - Br. & another one then already engaged ♀ who from here on ground Both Br - was down & the other bird had a good hold on it with its bill. a third unmarked bird stood by - these announced a few times & pacing birds but otherwise simply stood 1 or 2 feet from the fighters. They fought savagely using feet in alternate clawing motion & bills. Br was held down for 2 or 3 long intervals by the other who appeared to have a hold of Br's neck & head. Once I thought the unmarked bird up with Br. - he spread wings out & down spasmodically as if he had just made contact. Possible? Green finally up - all 3 chasing other 2 v's Green - Green & advancing chased again & Green flew chased by by others towards penguinery. Wing

Malay
1960

Cathartes macconnicki

Nov: 14. + feathers broken in flocks. Feathers seen flying in frag. Third bird flew a moment late. Frag lasted 10 minutes.

Pr 12

Lt Blue joined mate & drove the above.

Pr 204

3:10 ~~Pr~~ ~~Y-O~~ O-Y moved 20 feet from mate, sat, then left, always when I was not looking.

3:15 Pr O-Y returns lands near mate then moves 30 feet away & sits. Mate gets up (few minutes later) flies to ~~him~~ it. He challenges stands, mate sits. Pr O-Y finally flies, mate leaves a moment later.

3:25 bird flies past w penguin egg in bill.

Left shore watch at 3:40 & left skuary at 4 PM.

Post mortem notes. ~~A triangle~~ Pr. Y-O was seen presumably with his mate, a third bird landed by them. all 3 challenged. Challenging continued for several minutes sometimes together at times Pr Y-O & stranger alternating. All 3 then sat. Stranger finally departed. Lack of hostility to stranger, ie allowing it to remain & showing no attempt to drive it off was puzzling.

Nov. 17 31 Skuas were seen bathing, preening, and resting near a small melt pool on the

Maher
1960

Catharacta maccormicki

Nov. 17 Willett cons 100 yds off shore from Bonpe Glacier way

Saw 2 swooping + diving together, one made 2 or 3 passes at the other both then landed at adjacent nests, some 20 feet apart in skuary.

Nov. 18 Pt. O-Y. showed interesting reaction + my presence near nest. It was standing 30 ft W. of nest I was walking past nest towards it. The bird walked + ran from me looking back + raising wings, finally flew. This very reminiscent of tormenting, what I regard as maximum distraction.

Saw 2 birds at a distance in act of courtship feeding. Was attracted by the call being given by the begging bird (2 I presume) It was the same begging call given by pom. chicks when food begging, shrill high pitched yăă yŭ yă yŭ yăă. This actually is very similar + normal begging call + latter can be derived from it (vice versa also) by lowering pitch, adding a "ukeeya" component + dragging out each syllable ~~begging~~ Food beg call is also usually uttered one syllable at a time + each independent entity; not phrased as the pom. call is.

Maher
1960

95

Catharacta maccormicki

Nov. 18. Call given by one alone when I disturbed & while mating was as follows. The bird gives a whinnying call which often starts with a low ü and then ends in a high pitched whinny, like so ü ~~the~~ Later the bird dropped the "ü" and gave only the latter part of the call, tones in pitch, 4 to 6 syllables ü ü ü ü ü gutteral with a high pitched component at the same time, the bird warbles between the 2 extreme & usually ends in a high pitch note slightly drawn out.

A rather elaborate description probably worthless & taken from member of pr 78

Arrived always 3 PM. One Y-O ~~&~~ & rest joined other at mound, remained 3 to 4 minutes then RA Y-O flew back & began mating.

301 present, sitting, alone.

3:20 RA O-Y returns & lands by mate. Immediately begins to regurgitate. My moving to get movie camera stopped them & they both sat down. 3:30 RA O-Y flies off.

Saw ~~&~~ an interesting bit of behavior. on distant pr. On ground one pr challenging third bird member of neighbor pr I believe. At times would wrap as if in challenge, & then head forward the way they do in starting an attack

Maher
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Catharacta maccormicki

Nov. 18 + + at once drew head in + folded wings raised neck + went into "full down" pose turning head away from opponents + at same time. They challenged + ended in dive down (nearest one did not sure of pole). Quit at what it was. Other bird 10 feet away + behave associated with + didn't move.

An incubating bird gave interesting challenge - began in head up full down then opened bill gave challengecall + finally raised head + called. All done in smooth sequence while remaining sitting on nest + Wings never raised -

4:09 Rt Y-O left nest + flew to Lft Y-O on mound. a third bird had landed next to Lft. Y-O. The bird flew & both Y-Os challenged. Left Y-O sat at once. Rt Y-O. Stands there.

4:11 Lft Y-O flies to nest + sits near it. Rt Y-O still standing

4:13 Lft Y-O get up, walks 2 feet to nest + settles on it. Rt Y-O standing on mound.

4:25 Rt Y-O eating snow on side of mound.

4:32 Rt Y-O. gone.

4:45 Lft Y-Bl landed 9 feet from nest of Y-O began shaking ~~the~~ mate walked slowly over from 15 feet away sat in bowl 3-4 feet from

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Catharacta maccormicki

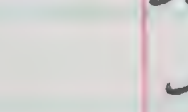
left Y-B. Left & Bl began eating snow + sat. O then got up + walked off. Left Y-O gave no sign of territory defence.

Muffled call on descending pitch m' m m m m m, accent on first like saying m but keeping mouth closed. This food begging call. Nature now. Saw this pair copulate & kept uttering a similar sounding copulation call. He might have made the done while female was laying. She gave "churr" or "chortle" if you will of satisfaction each time he made contact.

Left 5:20 PM

Nov. 19 Ten skuas at a small melt pool on sea ice S. of skuary. The birds were bathing preening and resting.

After lunch threw a snow petrel carcass out the door, in 10 seconds a skua landed & began eating. He was then chased off by a second who supplanted him. The first bird then circled about & flew at the second bird striking it as it came over this repeated 5 or 6 times posture of second bird interesting as bird A approached it crouched, erected its tail raised scapulars & kept head down like so.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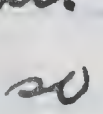

front

Hugo never noticed the tail being erected

Mules
1960

Catharacta maccormicki

Nov. 19 in this manner before

Walked through penguinery locating nesting skuas. Saw skua land near edge of small penguin clan. One ran towards him chasing, the skua retreated on foot as far as chased didn't fly.

Skuas regard penguinery as common hunting ground. No hostility to other birds hunting. Witnessed Leopard hunting over colony 200 yds from his nest. Other skuas hunting about area went unnoticed. This is in contrast again to Adelie penguins which when nesting display to other penguins even away from territory. This of course not true in regard to food itself. Mobbing is frequently in evidence when one bird gets a load of a bit of food & fighting &/or assertion of dominance is frequent at larger food items or source.

Nov 20. Contour feather in nest 35, 1 egg nest. Noted down bits & behavior contour feathers in other nests earlier but made no note. Do in future

27 Skuas about when penguins sea ice in front of Longing ice fall.

Nov 22. Saw a skua lay an egg while

Makes
1960

Cataracta ~~Emaccorania~~

making last round. Bird was noticed standing hunched in nest bowl. I thought it sick as it seemed inflated w feathers ruffled ~~up~~ up. As I watched I saw something drop from its cloaca, I stepped nearer & ~~it~~ it flew, when we spied the egg covered w copious mucus. This was pr 25 & the bird which laid egg had red band on left leg (thermoplastic) & no aluminum band

Thru binoc (pr 25 left leg banded)

10 birds at bathing place on ocean ice

Nov. 21 At Precipice this day. There is a small moraine on the S. side of the glacier a small area of rocks & rubble in pile & ridges which remind me of mine tailings or areas in the strip mine country of Illinois. The moraine measures about 100 yds across & perhaps 300 yds long & is ⊂ shaped and might be 7-8 acres in area. Don Douglas counted 12 nest sites & territorial pairs in his wanderings one & flying to scare birds to my move. He did not cover the narrow tip of the area so the total population might have

Description of Dawson Fork area

12 pr (15-16 pr total) Sel Nov 24 & earlier

Males
1960

Carbonated anaccaracki

been 15-18 pairs total - I moved 2 finally on the ice before the others Don got 2 with rocks. All were killed in toluene in a plastic bag which was put over their head. It worked very effectively.

While trying to move birds I had one grizzled character defend the bait as a territory. He would not eat himself but tried to keep others away. The interesting thing was seeing him announce on the wing w wings held ⌄ + a long glide, calling as he did so. Earlier this or another bird did the same thing near the glacier, a "V" glide which however, ended by the bird landing on the ice - these the only 2 real genuine "V" glide announces I have seen.

Nov. 23 Pair 25 has produced an egg which is abnormally small. It is approximately 1½ inches long + proportionately wide.

Lack of defensiveness of birds with 10 shortly after the second egg is noticeable. Today one bird which had and egg Nov 22 simply left nest at my approach with no reaction. This makes detection of early nests some-

Maher
1960

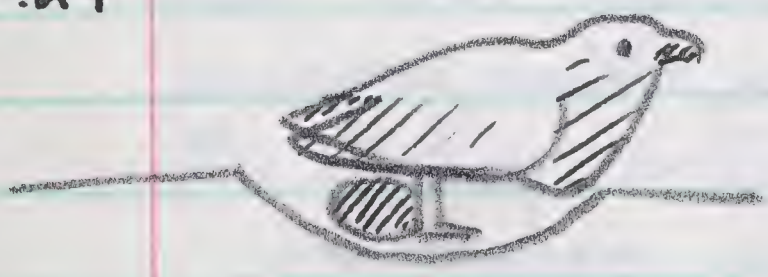
Catharacta maccormicki

times a little different + is a general rule. Their defensiveness seems to rise gradually as they incubate.

Pr 230 had feces & kill about nest site.

Pr 78 — one member of this pair bombed me with a shot of a vile smelling bile — shot precision when at the nest. This only one that has shown this defense. I suspect the only one

Nov. 24



Sketch from memory of skua laying an egg.

Nest 330. One adult present with an egg yet the bird flew off with no comment when I approached

Nest 3 - this pair has for some time — week or more but located some distance from #3 site. Hence abrupt change in record for this pair

In general the birds are getting more + more defensive + aggressive as they incubate. Many are absolutely non defensive when they get their eggs at first + the complicate finding the nest as entries + the records in which parents suddenly

Maley
1960

Catharacta maccormicki

Nov. 24 found to have 2 eggs
I noted a large number of birds, 50 ± more, about one melt pool near first glacier S. of Bonpie Ice Field.

Nov. 26 Nest 74 Noted down + contour feathers about the nest
Nest 36 Noted ~~the~~ contour feathers about this site also
Nest 52 also had down + contour feathers in bowl + about it. This nest also had a more elaborate lining of penguin feathers, ~~and~~ contour + tail feathers than I have noticed before.
I observed an interesting bird yesterday while skinning the seals. Plumage-wise it was fully adult though it did seem a little slight in build in comparison with some others. At any rate I first noticed it because it was giving the chick begging call + was observed in the typical chick hunched posture. It was standing by another adult + both were near a piece of Rubber. The adult "B" announced + it responded to the beg call, did this twice + the adult finally drove it off. The same bird was observed again several times in similar situations-

Maley
1960

Catharacta maccormicki

Each time it gave way to a bird decreasing the food it was pecking at. It never was seen give a challenge display but in each instance reverted to chick behaviour & was displaced from the food. This is probably abnormal behavior such a bird could hardly defend a territory or mate normally I would think.

Nov. 27 P. L. Down feathers were about site when one was sitting. It seemed pretty attached to the site & an egg may be forthcoming

N. - 1 egg. Down scattered among rocks about nest site.

Nest 1 with 2 eggs (second one new today) had down & at least one contour feather about nest.

D - had fresh down about nest site also.

235 - 1 egg - " " " " " "

209 - Down feathers about site up slope from the carcass.

77 - Ø eggs. Down present about site.

Witnessed one attempted copulation on hillside, and one copulation on small snow patch during round. Also I remember seeing a pair in copula yesterday. This is getting rare now in the absence of egg laying seems about to end soon.

Mahey
1960

Catharacta maccormicki

grade

I noticed one bird give an aerial "V" announcement. It hovered as it did so & then fluttered to a landing. This followed a brief chase. Other bird did not land but flew on.

Nov. 29

Observed a penguin near nest 339. Standing next to the incubating bird & peering at it. He was also tentatively poking his bill at it in a fashion somewhat hesitant & curious rather than hostile. This continued for some minutes, the skua getting more & more angry & taking several pokes at the penguin. Finally the skua left the nest & fluttered at the penguin which went away. The skua returned to the nest. This nest is on part of a mound with a colony of penguins around.

nest 339

incubating bird & penguin

At 7 PM when I arrived to make rounds I found that the fresh pond in the skuary had been completely dry. The area was completely dry yesterday 28 skuas were hatching & standing on it.

per actual gain

At skuary access bay. Brian counted 9 nesting pairs present there, 5 w 2 egg, 2 w 1 egg & 2 w 0 egg. We collected 3 birds & 2 clutches of 2 eggs. The skuary

Skuary access bay

Maley
1960

Catharacta maccormicki

Nov. 29 did seem less crowded than the last time. This may be due to the fact that we broke up some pairs by collecting 4 birds then & also to the departure of some more breeding birds. Brian says there are no birds in tapered end of skuary, however I did notice a pair defending back there when we were descending but that part of skuary probably held less than I thought it did last time & the max taken from that trip should be adjusted accordingly.

Nov 21

Food

Pole chop

The birds over here are depending on Wilson's petrel & Snow petrel for food. Chiefly the former as judged by the remains observed about the nests. We did see one pole chop bone indicating that they scavenge over by the base & also a few penguin remains.

Several pair are located along the top of the cliff. We saw perhaps 3 pair each with one or more scrapes but no eggs in the section we covered.

Skuas on cliff

Birds were seen flying along close to cliff face partway down. No reason why they couldn't nest there also though I saw no sign that they did.

Dec 2 While making round I noticed R. tt., L. ch.m

Maley
1960

46

Catharacta maccormicki

of pair #1 standing 2 feet from nest on which the other bird was sitting. It was standing with its back to the sitting bird & was picking up bits & tossing them over its shoulder - both right & left but of I remember rightly mostly to the right. The bits were mostly invisible but a few bits of penguin feathers were among them.

Sp Banded

Sp Banded

Band present on last round is dumped today.

24 ~~Sk~~ skuas seen bathing in puddle on sea ice.

Mabey
1960

Catharacta maccormicki

Dec 5 Arrived at the bluff at 9:50. Sat near nest 204. Both off nest. R.Y-♂ walked back to nest wings up, and after a minutes pause sat on the egg. Left.Y-♂ stands and watches me

10:01 Skua flies over. L. ♂ gives challenge display, & a second time as the bird circles

10:12 L. ♂ is sitting

10:14 Skua flies in. L. ♂ gives 2 syllable call, challenge & stands. Rt. gives same call while sitting on nest. The bird circles - gets no recognition on the second circle; on third L. puts bill down & gives muffled call, raising head as he did so, he sits.

10:15 another skua, L. ♂ stands gives brief call half raises wings then folds them, stands; sits.

10:20 Pr. 350 copulating. Bird with Al. band on left tarsus is male. He mounted several times. Was not successful. The ♀ turned head up & gabbed at the bill & breast when he mounted, gabbed 3 or 4 times finally turning head to side & straightening up as she poked. Thus knocked the ♂ off. It is possible that courtship feeding is a necessary prelude to copulation on part of ♀. It seems to me in retrospect

Maher
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catharacta maccormicki

Dec. 5 now, that when the ♀ does this bill jabbing *in copula* she usually dumps the male + when she is fed just copulation has usually been successful. Check this!

10:25 L.♂ stands, gives ĕ ĕ call at passing bird.

P. 2 354

10:26 Skua, low (2 feet) right through territory. R ♂ in challenge call; L. ♂ in full challenge.

10:29 Bird flies over low (12 feet) R. ♂ on nest gives full bill down. L. ♂ nothing.

10:30 Same bird back, R. in bill down, L. ♂ in brief challenge display, another circle; L. in billdown, R nothing; another circle + neither gives any response.

copulation

10:35 a copulation by pair in Spa. ♀ sitting, jabbed a few times at ♂ during the process. Stood up + uttered "gulpication" call as male made contact but appeared to toss him off at the same time.

10:40 L. ♂ gets up, stretches left side, gives challenge to bird flying over. R in challenge call from nest.

P. 42

10:45 P. 1-42 - unbanded has been standing 4 feet from nest on mound, banded incubating. Just noticed banded standing 1½ feet from nest, facing

Mabley
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Catharacta maccormicki

Dec. 5

away + tossing bits over its shoulder. Sometimes I could see what it was, white flecks of something, sometimes not. It seemed to take an instant to locate an object to toss each time. It did this for a minute, (favoring its right side), stretched, and then sat down again on the eggs. Unhindered stood nearby preening; did nothing.

230 has been here since my arrival. One on nest + its mate sitting 12 feet from the nest.

204: ♂ is situated 15 feet NW of nest. This has been his station all along.

11:02 Two skuas swooped to within 10 feet of pr. 204, neither ♀ 204 made a move.

11:10 Witnessed a nest relief ceremony in pr located between I + J. When first noticed the darker member of pair was standing facing away from nest + was tossing objects over its shoulder. Light member was in crouch posture when first seen + then sat on the nest in exaggerated fashion, spinning from side to side. Dark kept up the tossing for 3 minutes or more, slowly moving until he was 3-4 feet away. It fanned its right side. Light got up once, turned about 90° and sat + wiggled again. Light repeated this a minute or 2 after dark stopped tossing.

Hales
1960

Catharacta maccormicki

Dec 5. Dark now stands 4 feet from nest.

11:17 While writing above L. 2041 gave challenge display to passing skua.

11:19 Non-incubating 230 gone, was present 30 minutes ago when a stray Adélie penguin inspected it.

adélie

11:24 Light member of extra pr above has again shifted its position on nest.

11:27 Unbanded 42 walks slowly down mound to nest giving an occasional low call ă ă ă ie m with an ă sound in it. Sat took a position behind and to right of Banded who gets up & steps forward. Banded goes through teasing ceremony picking up, billing, and tossing white objects; some of which it seemed to have trouble tossing. Unbanded sat, fussed, got up and sat down again several times Banded flew off.

11:36 Mate 230 to back, landed several minutes ago, was challenged by R. y-o on nest. Didn't respond.

copulation

12:08 Copulation in still flourishing - Pr. on edge of pond have just copulated and also pr. 350. In latter case one bird returned to second who begged from it. A long mutual begging routine on part of these bird. Copulation followed. Former case was seen more

Maher
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Catharacta maccormicki

Dec 5

clearly. ♀ jabbed bill at male a few times, rearing slightly as she did so. Male kept place and contact was made once. ♀ remained standing through it. Male off at end, female might have done it. He went into momentary challenge but she remained in horizontal position flattened, and he mounted again. She gave "gratification" call when contact was made.

12:21 Banded 42 lands 20 feet from nest stands gives ĕ ĕ ĕ call a few times. Unbanded responds, gets off nest spread wings walked to banded bulging wings up, neck forward and body + neck feathers raised. Ate food which banded had regurgitated without any scene, and returned to the nest. Banded picks up Ithe crumbs and eats down.

12:45 Member of pr. 31 who has been sitting alone all morning stood up, picked up + ate a pebble, then stood a while and finally ate several more.

1:00 P.M. Left colony. Situation unchanged except that 230 male has gone. R. 204 asleep on nest. Sun is out.

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Catharacta maccormicki

Dec 5 arrived back at shanty at 2:30. Pr 204 present, one member of 230, & one of 42

2:38 Unbanded 42 landed 4 feet from nest.

2T in L. Y-O who won the nest.

3:00 PM Banded 42 gave 2 ĕ ĕ calls stood up, walked a few ft 2 & stretched, wing straight up, then flapped then 2 or 3 x exercising & finally took off. Unbanded then half flew over & sat on egg.

3:07 LTH of 230 landed. R.-204 announce called, LTH 230 announced.

3:10 R, Y-O walked & L, Y-O stood by it, then put head down by its abdominal

[illegible] area is the aerial view left shows. The upper frame is the incubating L, Y-O. L. finally got up walked off 3 feet, wing lifting & preened R. sat on nest. Kodachrome slide sequence of this:

3:16 L. Y-O flew out over Willett Cove, returned & landed on mound

3:38 L. Tlt., 230 just took off & flew to back pond.

3:58 Unbanded 12 standing by nest giving soft ĕ ĕ ĕ ĕ ĕ calls. Reminiscent of gop-all particularly when it is warning up, but more gentle & less assertive. Left Blue [illegible] then uttered [illegible] while the bird was standing

Maley
1960

Catharista macconnicki

Dec 5 with head up + when he put it down in choke position. Banded finally got up + flew off.

4:35 pair saw end of nest relief at nest "L". Incubating bird flew straight off to Spa. Other in choke position sat down.

4:40 Banded 42 returns - lands 20 E as before, marketing bird comes right out, flies, begs + is fed. Banded returned right with ĕ ĕ ĕ

Mahlen
1960

Catharacta maccormicki

Dec 6 Arrived at skuary at 10:05. One mumbs 204 present, incubating. 230 is present, one sitting 20' E as usual yesterday and one of 42 in incubating. 19 Skuas at Spa.

10:08 15 penguins came along. chased skua 245 off nest. all stood about nest area for a while, no more made towards egg. they then walked off in a bunch. Two of them were seen bending over & peering at the egg.

10:13 Mate of 42 is back.

10:33 Rt Y-0. returns from Spa sits at his usual place

11:00 Status quo as far as 204, 230, & 42 are concerned. Pr 204 & 42 present, one of 230. all sitting quietly.

10:50 Group of 13 penguins arrives just beyond 205 & 206., chase skuas off nest. have been standing there ever since (11:05) driving skuas away as they attempt to come in to nest. Some have looked at the eggs but so far made no move to break them.

11:12 There has just been a nest change at 42 - Banded bird now on nest sitting 4 feet from it.

11:30 8 penguins still about the nest 1 other keeping 3 or 4 feet away. Penguins seem

Maher
1960

Catharacta maccormicki

Dec 6

bored but untractable, one is laying down, others stand hunched up; but they will not let skua come in.

11:35 4 penguins now laying down though one stood up when skua made another approach. There are now 10 penguins, the sleeping one has rejoined the group & one other I must have missed earlier.

11:50 Next rel/ at 225 - 16mm picture pit. Now 19 penguins at that nest. They are moving out & leading this way. Earlier, about 10:50 I recorded a hut p2 nest rel/ at 206.

Nest rel/ (movie)

11:52 Skua finally sat back on nest. Penguins all left; now by nest 12, bird has stayed on nest however.

11:55 Penguins finally moved off over walkett one after standing about nest 12 for a couple of minutes. They took off abruptly & in a hurry as usual with them.

The status quo is same at my 3 pairs except that the Banded 42 has departed. I did not see ~~him~~ at go.

12:11 R d-y ♀ (a R-X) relief at 205 above is on shore of Spa

12:28 P2 Cop. in "island" & land in S. snow patch. New pair?

Cop pair

12:35 Banded 42 returned, landed 30

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Dec. 6 feet E of nest (as yesterday), unbanded came over & was fed. Banded then flew to Spa, unbanded walked back to nest.

1:15 R+H, 230 arrived. Mate gave challenge call. Confusion! Mate of 204 (L.Y-O) arrived, landed on mound. Mate of 230 already present 15 E of nest. Hence arrival R+H, (L.Y-O) showed egress. He had cotton marks on one wing Blue & Green I believe. Hence R.Y-O has been on nest all morning.

Left at 1:30 my time (1 PM actual time. My watch gains about 10 minutes an hour).

Dec. 7 Arrived skuary 2:15 PM. Time approximate as my watch was stopped.

Pr 204 present R-Y-O on nest
230 - ad. incubating
42 ad incubating, unbanded.
206 Ad pair " "
205 " " "

2:40 Banded 42 lands 20 E of nest, remains standing at at 2:45 flies to Spa.

2:52 L.Y-G returns lands on mound 40 W. of nest 42. Pairs

3:00 Marked 206 returns lands 12 feet

3:05 Mate 205 returns - Pair banded 206 on ground one lands & announces stands

Mahey
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Catharacta maccormicki

Dec 7 4 feet from nest.

337 bird typing & ousts incubating bird has been stand by nest for 5 minutes at least calling.

3:15. Incubating bird at 337 finally stands up & walks away. Announces & passing bird then flies. Other bird who gave up trying to get it off the egg & has been sitting 3 feet away, walks over & sits.

mate 205 gets up & flies off at same time.

3:30 205 effects a change of incubation duty about 3-4 minutes after the above entry - the banded bird has just returned & is bathing in a puddle near the nest.

4:07 Brian Reid came for visit at 3:55 to 4. Everything upset. At 3:50 incubating 230 had gotten up & a few moments later had flown. Mate was about to sit, in fact must have and starts when Brian scared ~~him~~ it off (L-Y-G.) On return it mate returned from a bath, preened & sat on eggs.

4:12 Four penguins came by 337. Bird remained on nest, they didn't molest it.

4:25. L. Red just flew by from Spa. Flew across cove & landed at nest.

4:30 R.O.X returns from Spa to 206, lands

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Catharacta maccormicki

10 feet from nest & preen. Mate flies challenge call at land.

4:40 Mate of 230 has left within the last minute or 2. Both 42 & 204 pairs are both present.

4:42 230 just returns from both lands 40' NE of nest. 204 in brief challenge call.

4:47 Pr near Spa in attempted cop. Filmed some of it.

4:50 230 returns again, this time from access zone where he went about 5 minutes ago.

5:15. prs 230, 204, & 42 are all present, as are 206 & 205. Pair by Spa present. 301 present. This bird went through Skua motions, alone, for just a few seconds a moment ago. Leaving always.

Dec 8 Arrived at 11:35

204. L. Y-O on nest when I arrived. R. Y-O. replaced it after I had disturbed them

230 L. th. on nest. Got off when I came but returned. R th. present

42 Pr present did not get off when I came. Unbanded pr nest.

43 birds + around Spa.

11:47 R th. 230 flew off towards penguin[illegible].

Mahr
1960

Cathartacta macormicki

Dec 8.

11:58 Eleven penguins standing (one lying) on edge of Spa.

12:20 7 penguins have walked around Spa + are now at its south end. The other 7 splitup + walked out onto ridlett cone.

12:28 Unbanded 42 who had very gradually been shifting his position from an original 15 feet from nest to c 5 over the last 15-20 minutes walked slowly to nest. The ~~incubating~~ incubating bird (banded) at once got up, stretched wings vertically + walked few steps toward unbanded bird. Banded spent 2 minutes preening invisible stems + white flecks back over shoulder then flew to Spa.

4 penguins walked by me about then + out into cone. One chased 12 off nest + then left alone, accompanied one. Two more stayed by Spa + are now walking this way.

The 2 penguins walked between nests 204 + 230 + on out. Neither then paid any attention to them.

12:58 R+TH. 230 returns from Spa lands 20' W of nest.

1:00 R.+H.230 flies off towards penguins 52 shows on Spa

1:22 Unmarked bird lands at 31 near nest

Mahan
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Catharacta maccormicki

Dec 8 L. Y-O announces as it lands. Ht returns some after landing.

Rt Y-Bl (RTH.-230) has returned from Sp. Preens. Returned about 1:20.

1:30 L. Y-O has moved to 18" of sitting bird, has been making occasional low noises as if he wants to incubate.

1:47 L.Y-O moves over to mate, giving low $\frac{e}{m}$ $\frac{e}{m}$ calls. Sets down when I move to get camera.

Rt Y-Bl. flies 50 yds returns & lands on head 70 feet from nest. (1:52)

1:57 single 31 returns from Spa - lands near me, suddenly flies 20 feet & fights with another skua. Wings flapping - beaks & feet were used. Feet in downward raking motion. After several bouts they stopped. 31 went into bill down display. Other bird did the same & held it for several seconds, body flattened & ruffled as if about to set down. Then they both stood. While writing above I heard copulation call. The was being given by the intruder. 31 stood. When he tried to mount which he did. 3 or 4 times 31 must stand & turned bill up to the he fluttered up. Done quickly. This seemed to stop the other bird. They now sat 2 feet apart.

Hala
1960

Cathartacta maccormicki.

Dec 8 60± bird in Sq a
2:05 left skuary

Dec 9 Arrived skuary 11:20.
11:25 unbanded skuas landed at 206. Stands making the soft $\frac{e}{m}$ $\frac{e}{m}$ noise puts head down once & landed gets off then stands for 2 minutes tossing small objects right & left over shoulder. Faces right. Announces to passing bird loudly & now sits 3 feet from nest.
Pr 204 is present ~~Pair~~ pair 230 also, only ~~Pr~~ one member of 42 is present, incubating.
11:32 A roaring aerial sweep of 2 birds, one of which then landed high on slope & the other after lazily circling & gliding along slope flew across & came towards him.
11:40 40 skuas in Sea
11:45 A fight at nest 212. Two birds on one, & a fourth standing. The 2 were apparently pr. 212. They both had holds on the 3rd bird, one on its head I could see & the flopped about for 2 minutes or so. Third then broke away & flew. Pr 212 then went for 4th bird who departed. Pr stood close together and announced loudly for a minute or so.
11:50 One of 212 finally sat on eggs. They have been standing & announcing for occasionally for several minutes.

Males
1960

Catharacta maccormicki

11:55 A stranger skua lands 25' from nest 206 - R-Y flies over at once, grabs stranger who at once flies off.

11:57 RH, 230 flies to fight 100 yds W out on cove ice.

12:00 R 362 begins food begging. I interrupt by whistling so I can get my camera ready. Also interrupted by other skuas + announce. They don't resume. One goes 6 feet S + starts chasing another bird with a HH. band sitting few feet S of these flies at once + chases it back. HH then sits.

12:07 Plot thickens. Seem to be 2 pr located at 362 + the single malcontent banded above (31 ??) The chasing bird above sits. One of another pair walks over, sitting bird in bill down display - tail elevated. Bill is way down + neck brought forward ~~~ like so. Picture !! Bird stands still in this pose starts announcement swinging head up into full announcement.

A complicated exchange followed. One pair fought, One bird driven aside other 3 in triangle announcing. One perched at head of 3rd separated with 2 pr sitting 3 feet apart.

12:15. One of above pr in 362 & believe they seem to prefer one particular rock pile to sit near.

Mabey
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Catharacta maccormicki

12:19 L. Y-O announces – * non-incubating bird.

12:21 all skuas suddenly leave Spa. two penguins have decided to try it. One runs through the other belly wops 2x but it is too shallow & he too runs through the water. making great splash. Pr 362, one and near & the banded bird alluded to above remain

12:30 The 2 penguins spent 10 minutes standing by 362 preening. then hurried past me to cove, apparently attracted by a group of penguins passing by.

12:40 Pr F. Unbanded seen feeding banded (a T+H. + an al or lab-m) Banded begging. Unbanded bumps up large white bales which banded eats, continues begging but unbanded moves off.

At 362 there are now 4 birds sitting as 2 pairs 2-3 feet apart.

12:42 L. Y-g. (R.T+H) lands 6 feet from nest, sits. (Hence L.T+H has been incubating all morning). after a moment he walks to nest stands in choke position & calls the latter incubation call. Other gets up & L sits. Relieved but stands, no ceremony, preens.

In contrast to incubation regurgitation feed regurgitation differs in rhythm; is likely to be like

Maley
1960

Catbirds

Dec 9. — — or — or — — — ie
a low pitched call & a plaintive, high pitched thin little call of 3 or 4 syllables uttered rapidly & run together.

12:53 released 230 has left.

1:02 " " comes again, lands 30' W of nest near mound.

1:12 released 230 departs again. Marked 206 returns, made gives challenge call as he flies over, & again with bill down as he (or it) lands. It gives full challenge after landing site 4 feet from nest.

1:21 One member of 362 standing with rope up regurgitating, mate standing 4 feet away. (Pictures!) Brings food up at which mate rushes over, recharged (pictures) eats & forgets what happened then.

1:32 Second pair 362 get up begging, but beg is interrupted, one goes 6 feet away chases. Another bird comes down onto stem the butt & lands near me, 3! (?) The pair then walk together & commune. 3! sits quietly. Pr now sitting as is first pair 362.

In meantime non-marked 204 has disappeared.

1:40 LHH - 230 comes back

Mahey
1960

65

Catharacta maccormicki

1:42 L. 204 present.

1:45 Nest relief at L. relieved bird unbanded flies to 362 + announces & one member of second pair. (Relieving bird is banded although & above who duced 362 chasing). One member of pair 362 b present. It eventually flops from "L" bird in full food beg, but erect neck arched. "L" walks with Spa & drinks then ignores 362.

1:52 Bird lands between 31 bird + 206 - 31 gets up & runs few steps in its direction, wings up. It flies. 31 + 206 then in mutual challenge.

Nest relief at 205. 1:57. Relieved flew immediately to pool near nest, drank.

1:58 P. 1362 - real 362 - one bird is begging cop call, standing, other remains sitting. Stops, eats.

One reason for confusion about what is occurring at 362 is presence of other birds. This seems to be a favorite resting place along edge of Spa, possibly because of the lack ridge of large stones. At any rate there seems to be incipient courtship activities among several pairs of birds + always strays about to confound one, a number from 10-15 birds. There is however one pair that seems really settled + this

Mabey
1960

Cathartacta maccormicki

Dec 9 I will call 363

2:06 next relief at 206. Banded landed at nest (or seemed to) incubating got up + walked off - no ceremony. Banded sat. 31 got up walked towards relieved bird. regurgitated food mass. Relieved 206 ran over + ate food. the 2 sat stand there.

2:10 after above 31 walks few steps away, neck up, slim, taut walk, stops puts head down + makes as if to eat. 206 stretches wing flies circles to Spa lands. 31 flies circles the other way, lands back on territory + goes into choke, alone, interrupts to announce to passing bird. then stands

2:13 206 back at nest preening. 31 has disappeared.

2:15 31 returns from Spa, clobbers 362 on way over.

2:17 362 in brief incipient, choke ceremony. (Choke call, ē-ow ē-ū (ē-you) very hoarse, sibilant, + high pitched.)

2:32 - 362 in challenge to other birds near by. One regurgetates food right in the middle of this, Other ignores it. Another bird comes close + is chased by one. Bird which regurgetated re eats food, both sit

2:37 One of 362 in choke. 31 flies over +

Mahen
1960

Catharacta maccormicki

annoumes. all 3 annoume. 362 sets.
31 stands walks off 3 feet

2:41 31 flies 10 feet from 362 stands utters beginning copulation call for minute, low intensity, then sits.

2:43 One of 362 in object tossing ritual. Spontaneous, no prelude + other just sits as if it was done. Walks off 3 feet a third bird comes over in food leg attitude Mate gets up + walks over + first bird annoume to 3rd who flies off. 362 both sit 2 feet apart.

2:45 ~~Cop~~. Incubation call by L y-o. — intermittent —

2:48 362 in rampage. Same bird which walked off before repeats. Began chasing sitting birds near by. Walked up to them gleefully head up but not extremely so. Just the walk + pose made some birds fly. With others when he got close he would open bill + thrust it at them soundlessly + without real threat, they would fly or at least move. One however returned it angrily + one bird fled. Mate joined him + went about business. Both then sat. Now (2:52) in bird choke ceremony then sat.

2:57 Informal △. Two birds on 31 Ten. One in up call, beginning pecking

Maher
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Dec 9

Cathartacta maccormicki:

second jabs & walked away, neither slowly nor rapidly just steadily. Cop. caller would call then flutter & run 2 feet to catch up, stand & cop. call then repeat. Then moved off and went into choke - call & posture for a minute or so. (Picture!) Then stopped & sat. Other bird was unbended 206, kept walking & sat 20 feet from that nest.

3:00 42 - mate arrived, first time today. Landed 20 E as usual. I first noticed when heard begging call as wrote above. Inc. bird wings up worked to him giving call ˘ ˘.... ˘ ˘.... ˘ ˘..... this contact introductory note & little notes in series descending & getting more rapid as descended vocalize as ă ĕĕĕĕĕ ˘ ˘.... ˘ ˘.... like 20. Fed & banded returns to nest = Pink 2 pictures not sure if banded was the ~~feeder~~ one fed in above. I don't think 20.

Depart ~~3:02~~ 3:10 for lunch.
Arrive back 4:00 PM

Pr 204 on nest get off & announce. Returns to nest. Mate not present.

230 only incubating bird present
42 Pr present one 20 E of nest.
31 Present

Maher
1960

Dec 9

Cataracta maccormicki

301 present

206 Lpres. Banded Dec.-

205 Lpresent.

12 L- present.

362 present.

4:12 L. Y-gr. 230 returns from Spa landsat his usual place 30' ~~N~~ of nest.

4:20 31 giving chuke call + chuking è è è è repeated every seconds bill open. He is alone, + 25 feet S- of usual place.

31 chuke

4:32 Bird lands 15' from 206 unbanded at once flies at it. It takes off as unbanded lands. Previously several birds had flown over within 2 feet of unbanded + been ignored.

Bird 31 Bird lands to

4:37 Bird lands on 31 territory. He flies to it lands + announces. Bird flies unbanded 206 flies over, circles over Spa + lands again.

4:44. L. Y-G. Gone

5:10 Next relief at 206- Banded flies at once to Spa.

There is no doubt (?) ~~that~~ the bird down display is low intensity announcement. Saw one bird of 362 - sitting - do this to bird - then when bird came few steps closer stand up + challenge beginning from this position - Stone-

Maher
1960

Cathartes aura

Dec. 9. house idea that it indicated subservient or inferior status in some way doesn't seem borne out by this encounter involving a settled bird & a bather - ie not non-tactful ~~stranger~~ stranger. also fact that robins see this to birds flying overhead suggests the same thing.

5:10 Flight in water of Spa. Both flyers in large circle then both island in Spa. Suggests ~~hostile~~ hostile nature of flights seen.

Left 5:15

Dec 10 Arrived 1:30 PM.

Spa contained 42 birds

Rt. Y-O on nest. L. Y-O present.
Pr 230 present L. HH incubating, R TH standing 35' NW. of nest. Pr 42 present unmarked on nest, banded 20`E. Bird 301 present. Pr 206 present. 12 pr present unmarked incubating. 31 is on territory as is another extra bird who sets towards 204. 362 ♂ present.

2:04 Banded ~~35 (RTH)~~ 42 returns from Spa. lands at usual spot pecks. mate gives few notes of greeting.

2:08 R. Y-O gives brief challenge call 5-6 syllables which setting. ~~Bird~~ erected tail mate did so.

2:12 206 unbanded, setting 3 feet from nest spot

Mahn
1960

Catharacta maccormicki

Dec 10

announced to passing show.

Ended one 16 mm roll w few feet of show in aggressive upright near spa.

Curious chant 362. Then were 2 birds there earlier, one walked off in aggressive upright chased a few birds off, then while I was writing he appeared to try to copa- with another bird. Mystery is solved. Thus wants mate. They then stood 20 N of old nest which was occupied by a bird one of which was banded like one of "L." as I wrote above. 362 walked back to their original spot, "duked" briefly + sat. (movies)

2:27 bird came out of Spa landed on edge. 3 other show near. Our hero got himself into ~~Upright, aggressive~~ walked slowly to one which flew, then turned walked slowly at 2 other which flew. He then sat. None of bill jabbing seen yesterday.

2:37 RTH 230 flies + lands 3 feet from nest. gives m m call

2:50 31 lands near me on territory stands. unmarked 206(♀) begins walking slowly toward him. He with neck + head sleeked down. She in normal appearance. He then starts toward her. As she gets to him she seems to fluff neck head feathers point head down a bit + turn head away so as to keep left profile to him

Mahler
1960

Dec 10

Cathaeta macconnicki

then suddenly into beg posture

2:53 R.Y-O gets up off nest & flies to mate 15 feet away. He finally goes to nest & sits. She goes to Spa, returns a few moments late, walks to him, then flutters off 10 feet to stand.

3:00 L. R Y-O. utters 2 ĕ ĕ calls. Wants off

3:24 Nest relief at 206, marked is relieved by unmarked. Tossing recorded on (6 m)

3:03 R. Y-O flies off toward peregrinus.

Mate 42+230 gone - mentwhile Don Douglas came + visited (Came 3:20. left 3:42)

3:4# Banded 206 returns from Spa. Greens 4 feet from nest.

3:47 L. Y-O on nest gives call to passing bird 4-5 calls, erects tail. Shawl also note erecting of body feathers, part of challenge have at times seen

4:00 R 204 back from Spa, 230 mate back at nest I watched 362

4:05 P/ 362 moved 8 feet off mound this way. 31 flew over & stared back away. Then moved back on mound

4:26 R. Y-O returns & lands on mound

4:28 Bird walking out of Spa towards a second in upright with head thrown up as a bill was up at 30° ∠. walked right

1 - nest relief
30 recorded
hm. R Y-O arrives
on way off nest

Mahler
1960

Dec 10

Cattaraeta maccormicki

up to second bird then opened wings & went right into challenge. It then gave beginning of cop. call, other bird sat & it dominated & sat. Thus elevation of head & truncation & challenge is new

4:32 Saw Pair feeding at distant nest. Heard, [illegible] begging call. Introductory note a trill with m quality. Ie trill which sounds 'm'. Can't see food but the bird can. mmm & ii ii ii notes only 3 or 4 & on same ~~note~~ pitch a little lower than first note & not in descending series. Then one banded member of pair which then walked back to nest & sat, nest flew off. (Nearest of group of 4 which includes F.)

4:40 Water now flowing part around nest did yesterday afternoon about this time. Thus channel was dry when dammed ~~this~~ P.M.

4:45 P. 362 walked 10 FT N. One chased a bird by spreading wings, fluffing feathers & lunging. Grabbed bird which squeaked, struggled loose & flew. Other bird in upright walked over to another spread bill sexually & other bird flew. Head not moved bill simply parted. Finally chased third bird, both, and remained there last seen 4:50 PM

4:52 Rates of 204 & 230 both return from Spa.

Mahler
1960

Dec 10

Cattaraeta maccormicki

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4:52 Rates of 204 & 230 both return from Spa.

Pair 232
banded mem.
-5:45. Banded
mem.

Makes
1960

Dec-10

Cattaraeta maccormicki

5:00 Banded 42 has returned

5:15 Next relief at 204. L.Y-O gets off quickly when R.Y-O stands by. L.Y-O on pebble tossing for half minute to a minute. Interrupted once by announcement. Then flies off toward penguin egg.

5:30 Prs 204+230 are present. Pr 42 non-incubating bird absent. The other bird on 204 is still present & has been there all day. 31 is present as are 206, 205 & 12. 301 is absent.

5:40 Relief at 206. Banded returned unbanded. Banded had to "Mew" for several minutes before to mate got up. (16 min) Mate flew off after mewed greeting. No framing. Interesting that presumed ♀ of this pair & 204 have not had framing ceremony but make ♀ each pr. have. After relief unbanded walked towards 31 who suddenly ran few feet to her & regurgitated (35 BL ♂ of this pr. next relief also). She ate, drank a few sips & flew off.

5:45 while photographing 31 heard beg call. 42 Banded apparently feeding & unbanded begged several times from banded at usual spot 20 E of nest. Apparently he had already fed as he did not regurgitate. Unbanded went

Mahen
1960

Dec 10

Cathaeta macconnelli

~~5:15 16 S.P.~~

back to nest & Banded pressed. Possibly dead ~~that~~ she would not feed at all. (35 mm BL+W)

230 R+# incubating when left at 5:45.

Maher
1960

Cathartes aura aura

Dec 12 Pl. 204.

Arrived 3:20 R.Y-O Incubating, 2 young
setting 25' NNW of nest.

5:25 Status quo

Maley
1960

Cataracta maccormicki

Dec 12 Pr 230 @ 3:20 PM
L.TH present 60 feet W. R-TH [illegible].
3:47 LTH swooped one, was announced
to by extra bird + 204 both members,
came back in + landed, announced
4:09 L.TH just arrives from Dyea.
5:25 Pr present. LTH setting 15 N

Males
1960

78

Cathartes maccormicki

Dec 12 Pt 42

3:20 Banded pos 20 E of nest, Unbanded incubating.

5:25 Status quo Banded sleeping 20E

Mahez
1960

Cathaneta maccormicki

Dec. 12 Pa 206

3:20 Pa present.

4:50 Banded R. O-Y just released unbanded who left with no fussing. R. gave Mew call a few times & unbanded got up, announced to a passing bird & left. Also see ~~304~~ 311 (entered under 304)

5:25 Pa present. Banded still incubating.

Relief & mate

Mabel
1960

Cataracta meconnaki

Dec 12

1:20 P.M.

3:20 Pt present.

3:38 R. + H, walked to next, was setting 2-3 feet away. Began giving a call like the beginning of the cop. call ĕ ĕ ĕ ĕ (each syllable has a ~ ~ ~ contour + is not just ĕ ĕ ĕ) at any rate the other bird got up at once + flew 20 feet, landed + preened.

5:25 P present - statuspus

Males
1960

Catharacta maccormicki

Dec 12

Lu 12.

3:20 Lu present, unmarked incubating.

3:30 Banded (L. Bl.) flew to Sea

4:00 Banded bird in New all. Seen standing by nest - upright - not in New posture. Unbanded gets up + Banded sits unbanded in Tossing ceremony (2 Blows)

5:25 Lu present, status quo.

Next visit
planned for
around Dec 20
to find
bird

Haley
1900

Dec 12

Catharacta maconnachi

#
#31

3:20 present; setting Tentacy

5:03 31m another Hew cell by himself.

See 301 for entry that belongs here.

5:25 Present, setting toward 206.

Oakley
1960

Catharacta maccormicki

Dec 12 #301

3:30 Present.

4:25 Seen walking a little, seems to have a limp. Then flew to Spa.

4:31 301 returns from the Spa, preens.

5:00 This or (30) 1 flew & landed 15 feet from ♀(unbanded) 206 when she returned from Spa. She walked to him, to her, both in upright. he seemed very slender. She begged (♂ & ♀) & he regurgitated a large bolus. They had one try on it & then she ate most of all. A moment late she flew to Spa. 301 gave Hew call alone.

5:25 Present.

31 not 301

Mahler
1968

Catharacta maccormicki

Dec 12

Extra bird which has been sitting 15' E of 230+204 is present.

3:42. Pr 350 seen in courtship feeding, one begged alternately from the other and was fed. A third bird landed near by & both announced

3:45 ♂ (banded member) ~~two~~ giving copulation call, mounted 2x ~~female~~ female - Female seen to grab up at the bill + he dismounted. Not complete.

4:36 16 penguins have just closed 203 off the nest.

5:25 Extra bird present, has not left this P.M.

Waller
1960

Catharacta maccormicki

Dec 12 Pr 362

3:20 Present sitting

3:55 Pr gets up - one begins "Mewing" (alias shaking) & Mews, other bird stands by, reaches once or 2x for it's bill in "fuss-like" motion. Other bird (Mewing one) then sits & in nest. Bird B walks around behind it and picks at something on ground next to A. A momentary challenge call is given. Then B begins Mew call, A responding, B finally sits by A. Blow pictures.

4:00 362 clears their area. One seen in upright, walked to one bird hunched & wings up. Then interesting because no sign of wings lifted in aggressive upright. Walked to another in upright. It seemed that as he walked towards the two head was arched away from them so from front he looked

as he approached them.

next they flew with no protest.

4:20 362 in Agg. Upright. Picture of both of them walking towards third bird. When they got near they both announced & not flew.

5:25 Still present.

Maher
1960

Dec 11

Catharacta maccormicki

"Shetland Sanctuary", R.E. Levy
Faber + Faber London (?) 1948(?)
(Deals with great & antarctic skua).

Dr Novatti, Jorge
Cerrito 1248
Buenos Aires
Republica Argentina
(Skua man, name given to
Bird Band from Lt. Lopez, argentine
observer at Ft. Murdo)

Oliver Austin article on banding
skuas, reference to Hallett. In "Bird-banding"

14 Mch
1960

Catharacta maccormicki

Dec 16 In round today noted several times that the skua chicks do not run away when I disturb the parents. They sit & regard me with apparent unconcern, will open bill defensively if I put my finger near them. This is of course in marked contrast to the younger chick behaviour.

Dec 17 Notes on behavior of chicks when I was at the nest.

Nest 22. Older chick lay quietly, head down. The younger was quiet also but held head up & looked about alertly

Nest 27. One chick in nest, one 3 feet away. The younger one was nonchalant, unafraid. The older one was more quiet but not as limp as at nest 22.

Nest 53 The 2 chicks were away from the nest, the older about 25 feet & the younger 12 feet from the nest. The older one lay quietly but bit my finger when handled. The younger one was uninhibited by my presence looked about called to parent.

Nest 36. The younger chick looked alertly at me called its usual chick squeak. No sign that it differentiated me from parent in that I was recognized as a threat. The Older chick on the other hand reacted by laying head down & being quiet.

Maley
1960

88

Catharacta maccormicki.

Dec 21 I have had the 2 skua chicks Modoc & Gretchen on the floor of the lab while writing my journal. This is the first time I have observed them together like that for any length of time. Modoc is definitely appreciative towards his "sister" & usually he would eight her, stand up high w neck stretched & breast thrown out a little & utter a ŭ ŭ ŭ ŭ guttural but juvenile call which sounds like a chick version of the challenge. He would then start Gretchen, who on hearing him & seeing him call would start running with shrieks of alarm. They were justified. Modoc pecked at her as hard as he could whenever he caught her. Gretchen however was fast enough that she was only caught a couple of times. Often she would hide from Modoc behind cans etc. as if clearly recognizing his threat. Earlier they have been fighting in their box, & when they were on the table together Modoc would peck at G's feet & pull strongly on it. This plus the observation at nest 308 yesterday where the older chick was seen behaving the same way towards the younger, convinces me that these chicks are hostile & each

March 1960

Cathartes maccormicki.

Dec 21

other to a far greater extent than the remaining chicks. The interaction between the chicks should be watched, especially when a third chick is brought in. The establishment of a peck order would be significant & necessary when food is limiting to mean that the available food would be used to ensure survival of some birds rather than to partly support all of them. This of course would be essential to a semi colonial, flocking bird & superfluous in a territorial one as the long tail & parasitic, or the pomarine.

In bird hostility of one chick to another would also be important. Would result in death of one only if weight advantage allowed it. In times of adversity this would occur & ensure survival of give maximum chance for survival to one chick. In this spp. the hostility seems manifest even when chicks are well fed as seems as. This not true of pomarine chicks. Thus the hunger of the chick raising only one chick could be selected for in this way; not by the parents clobbering the young as Murphy suggested.

Dec 28

One obvious thing should be noted down. There is still a shortage of food among

Maher
1960

Catharacta maccormicki

the skuas. There have been no blizzards so far and mortality among the penguin chicks very low + the adults very defensive evidently even defending carcasses of dead chicks in the nest from predation.

Peter Martin has seen skuas attempting to kill large healthy chicks but they were unsuccessful. The birds hang about the rocks fall in numbers another indication of food shortage. The death + disappearance of skua chicks from colonies also seems to suggest this.

Dec 31 The eaten carcasses of 2 penguin chicks placed out doors attracted approximately 55 skuas. The size of this turn out suggests again a general food shortage in the area.

Jan 1. On Dec 27 or 28 Modoc became weak in the legs. He could stand but with difficulty + walking was very difficult for him. I thought at first it was slipped tendon disease but the legs didn't slip out of joint in the way characteristic of that condition At any rate on the 29 we gave him ½ of a vitamin pill. He showed no improvement on the 30 but on 31 he was standing + walking about better + today he is more improved. He doesn't move about much yet however.

14 Mahey
1960

Katharacta maccormicki

Jan 2 I cant be sure that the vitamins effected a cure. Don Douglas says that one chicks last year (o/a raised in bio-lab) also lost the ability to walk for a day or 2 but regained it shortly. Both chicks were given 1/4 vitamin pill on 29th again on Jan. 1.

Additional note on food shortage for skuas. Carcasses of penguin chicks in penguinery are eaten almost entirely down to hind limbs, pelvis, flippers & some skin occasionally, the head & bill is left. I have the impression that more food is becoming available only in the last 2-5 days this coincides w the growing creche tendency in penguin chicks thus allowing the skuas to get at carcasses hitherto denied them.

Last week P. Martin reported skuas attacking large healthy penguin chicks & dragging them away from colonies. They were observed unable to kill them & the chicks got back to the colony. I believe he saw this more than once.

Jan 3 Pete Martin reported the following observation at nest 332 near which he is erecting an antenna. A strange adult skua came sweeping along

Males
1960

Cathaeacta maccormicki

dove in + grabbed the chick of the pair. It flew a few feet when it was hit + headed by one of the parents who proceded to "beat the shit out of it" according to Pete, + it was driven off. The chick is crippled; its right leg projects out at a right angle + cannot be brought under. It has been this way from birth; but I didn't realize it until yesterday when Jack Cannaway pointed it out.

Jan 6 Ten skua eggs have been brought in from the field unhatched + blown so far. of them 3 showed signs of having been fertile. One with a small embryo well retted + 2 with large near term embryos. The latter were not blown but were given to Don Douglas.

Jan 8 Observed a skua attempting to kill a penguin chick. When first seen the skua had the chick by feet from a colony + by the head. The chick broke loose + ran towards the colony the skua flying grabbing it again by neck + threw it down with a twist of its own neck the chick then 4 feet from colony again got up + made it to safety.

Males
1961

Catharacta maccormicki

Jan 2

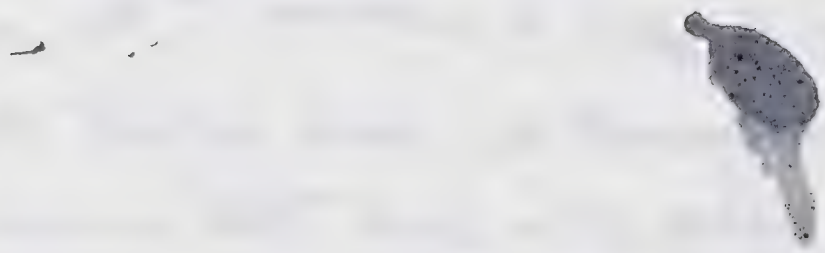
Watching at nests 331 + 308. I am sitting 60 yds from both nests. I arrived here at 2:15 pm so hot found unfortunately that I had not brought my watch so that times will be very approximate. The light colored, banded, 331 is incubating + has been since I arrived. The mate is eating a penguin chick 100 yds from me. Just a moment ago he chased one bird away. He did 2 previous T. Ds., one a ground announcement to a bird 20 feet high, second a long chase of a bird that swooped down + "bugged" the nest.

4:00 pm Banded mate returned. Gave few loud trills then flies lands near nest + challenges

Banded walked near a long time, then flew to a spot on the snow 30 yds beyond nest + far from a penguin chick carcass. Finally at 20 yds from nest + now watches me with first one eye then the other.

Nest 308 Chick finally got fed. Adult picking at a penguin carcass next to nest. Several times flew into enclosure but left again after seeing my attention. Finally fed it by regurgitation, chick pecking gently at its bill until it regurgitated. Still pulling at carcass.

Just saw 308 pr kill a penguin chick. Occurred only a few feet from their nest. The penguin



Maher
1961

Catharacta maccormicki

Dam 2 chick was only 5 feet or so from its colony. I didn't see whether it walked or was dragged there, the latter I think. When I first saw it one adult had a hold of it & was tugging away from colony. Penguin reacted stubbornly, called. No penguin nearby paid any attention though adults were standing there. Skua got hold on back of neck, squeezed, ~~twisted~~ getting itself on top of penguin. Wings spread during this, looked like Dracula in the last moments. Chick finally dead & skua began pecking at it, opened gut cavity first & started eating. Mate which had stood by during this came over, begged & was fed. They had several tugs over pieces of gut. One bird (the killer) then took a piece to the chick. It was fed again a moment later.

Later banded 331 walked over to penguin colony. One adult penguin drives it off.

It had been standing some minutes immediately above. Suddenly flies off across valley & I lost sight of it at about crest of Spa.

One of 308 also flew over cove straight toward Spa.

Chick 308 jumps, flaps wings, gives challenge

Returned to base lab. at 5:20

Examined carcass of penguin chick as I

Maher
1961

Cathartes aura ruficollis

Jan 2 left. There were 2 large bruised areas on its neck, one on either side, just at junction of head + neck. Skin broken slightly on one side + a little bit of external bleeding. Head not crushed. They had eaten the intestines out of the carcass + temporarily abandoned it.

9:40 PM returned to watch at nests 331 + 308. Pr 308 flew to nest at my approach + both landed near, now ~~at~~ their.

Banded 331 not incubating lands behind me, unbanded is incubating.

9:42 One adult 328 flies + and by small P. colony near nest. Other flies out circles, stands + then flies out. Disturbed by my presence.

On way out I spotted 2 large penguin chicks with lacerations on sides of head + neck as seen on the bird killed above. Skuas apparently do kill penguin chicks which are healthy ones as these all appeared to be.

10:20 Banded 331 flies from near me where it has been for 40 minutes to a place 35 feet from nest, preens, sits.

10:26 331 Banded suddenly flies to nest, sits 2 feet from it. Unbanded remains incubating but starts picking up objects in front of him + tossing to right + left over

Mader
1961

Cattaracta maccormicki

Jan 2 shoulder after 3 minutes it gets up & banded nits unfounded in pebble tossing. In 2 minutes he flies circles over penguins looking down, lands near me.

10:35 One adult 308 sitting outside of enclosure. Chick crouches quietly

10:40 Unbanded 331 feeding on carcass 40 feet behind me - same one as this afternoon.

10:45 Saw one adult in enclosure. Second joined it. Chick was feeding on something tossed up by first adult. Second seemed to take a little. Adult disgorge. ~~Four~~ ~~Four~~ First adult left flew & landed near penguin colony. Second also left moment later.

10:55 One adult 308 in series of chases. Went far out over cove, back, strafed me, followed another passing adult out, came in low over me again, around & landed by enclosure. Feeds on P. carcass. All this done with no announcement no pauses hostility etc, Polite but firm is his motto.

10:58 Same bird just fed back again. Flies out in a moment & is feeding on penguin killed this p.m.

11:00 Mate joins it, has been sitting 50 yds off. Adult joins in defense. Then moves away & finally flies back to where it came from

11:08 331 U. flew up across cove.

11:10 left..

Maher
1961

Catharacta maccormicki

Jan 4 Arrived to watch pr 331 + 308 at 2:45 PM.

331. Un. incubating. Banded sitting 10 feet away. Flew + landed near me, challenged + sat 20 feet away. I am 60 yds from nest.

308 - One adult sitting 10 feet from nest second 40 yds from nest.

308, 2:50 Both adults sitting near enclosure, one 25 feet on E, one same distance on west.

3:00 Sara flew ma 60 feet up. 308 ad, ♀, gave it half hearted challenge, posture is very daffy, no call. 339 landed past hill down; that was all. Bill not put straight down but over to birds right — will something like that.

3:07 Bird flew near ~~20 feet~~ up. Banded 331 gave full challenge

3:09 Banded flew from near me + lands at nest. Sits, preens.

3:11 Flew over 25 feet up. Banded full challenge incubating challenge while sitting + two wing flaps

3:17 Banded stands by nest in new call position bill opening + closing. Inc. gets up flies immediately off, lands near me, 15 feet + challenge.

3:20 Bird over 20 feet + low, Un. challenge. As pr 308 ad who challenges.

Ad 308 or W. ends feeding on penguin chick has been for 25 minutes.

Malley
1961

Cathartes aura meridionalis

Jan 4. 3:22 Ad swung over 15 feet a lower. Ad 308 up & circled, flew out & up as Elvas Acres sign & swung back. I lost sight of them then a second later flew over.

Unb 331 lands 20 yds W of me & challenges.

3:27 Ad 308 lands into by nest.

3:27 Unb 331 has penguin egg, flies, lands at nest walks up on nest & proceeds to open egg, then picks at up walks to nest

3:30 Bird flies over 25-30 feet up, ignored things looked at.

3:32 two ad swoop over 15 feet. Unb. 331 flies circles low & lands. Ad 308 challenges. One of the ad turns & flies back over 308 is challenged, this was apparently a close proximity of 364. As 35 Ad came back. 331 also challenged on ground. Preceded this with bill down posture, head neck brought down in almost a bowing motion then swung into challenge

3:37 Bird flies over 15 feet, 308 Ad challenges. Unb 331 flies lands 25 feet from me. Another adult 25 feet up over 331, Unb. challenges.

3:45 flew over 30-35 feet up. Unb 331 challenged preceded in bill down, to one, side. Occurs to me that one sidedness may be so bird can keep one eye on bird displayed to.

3:47 One adult on 308 endeavors. Unb keeps butt not frontally by poking at bill, Ad regurgitates. Found ad

Meher
1961

Catharacta maccormicki.

Jan. 4 from near nest flies in lands eats some of food, chick eats, Rehearse first ad eats to the ad leaves first & second one a moment later

3:52 Ad over 35 feet up. Unk 331 challenges. He has another egg, inhabitant perks at several times momentarily, sits.

3:57 Unk 331 picks up egg, walks 20 feet & then flies buries nest & drops egg & hits near nest bowl. Unk. lands near by. Banded gets off nest shakes & egg hits & apparently opens it, eats, Unk walks over gorges, both eat. Band. returns to nest.

4:04 Unk 331 hatching beyond nest.

4:07 One ad 308 still sitting near nest - Other?

4:31 Ad near 308 flies to enclosure. Fed chick, eat down in enclosure, pair stands & preens. Hungry chick shows none of frantic hunger of immature chicks. Very gentle in begging. Ad regurges. Chick eats ad eats what was left. 4:34 Ad left enclosure sits 4 feet E.

4:37 Ad 308 flies in low from sea & lands near nest, preens. From Spa? 4:42 Still preening & flapping. Very likely he has bathed,

4:51 Ad 308 who had been here all along walks over & begins feeding on carcass

4:57 Preening 308 flies circles low over penguin entrance came Climbing following an adult which flew over at 30 feet or so. Turns after (50 yds, lands preens, Mate continues eating from carcass

Mabey
1961

Cathoracta macormicki

Jan. 4

5:00 Ad flies over 30 feet, circles 308. Fading annamies on first round, gives bill down on second. Ad then flies on over 331 unbanded annamies.

5:05 Feeding 308 flies circles east low & back over 331 nest at 3 feet. Band gives bill down as it approaches & then head back apparently in challenge as it passes over. 308 defecates about then, unsure, really not sure it tried to hit. Almost lands in enclosure but drops over one outside at last minute. Stands.

5:12 Preening 308 still at it.

5:15 Ad near us flies in fed dark; other adult still preening.

5:17 leaves, lands near by, gives bill down to preening adult, Preens flies, feeds then follows the fly almost to E Aves sign turn back (no apparent reason) low over bank. 331 (w. of me) calls annamies.

5:32 Bank 331 flew over penguin colony between 2 nests. Both 308 flew, one banked + challenged other circled back & landed E. of nest where it had been 331 called as he landed.

5:37 Bank 331 flies over p. colonies low, hunting. Swings very low over one causes a rumpus. Swings over Banded on nest who gives Bill Down display. It lit lands near penguins

5:44 Ad 308 flew over middle of colony during colony. Bank 331 flew across + also along middle of colony. Mate 308 followed. No

Maher
1961

Catharacta maccormicki

Jan 4. announcements next Sunday patrol through B. 351 to
Barnes Cabin next game bird challenge call

Jan 7 Arrived 1:50

349. B. Incubating. Unbanded 40 feet away

11: adults both present 10 feet from enclosure.

2:06 Truck driven by George Allen arrived. Did not disturb the birds at all as near as I could see.

2:16 Truck passed me on way in. Again birds remained where they were.

2:45 Pr 18 flew in circle & landed on slope. 349 both gave challenge call (only) as they went over

Next 11. One ad setting 10 feet from enclosure I have not seen the second adult since shortly after being here.

2:50 11: adult flew off at same time second adult glided in, circled & landed 10 feet from nest. Duck in loud call, bump display. Second ad. returns & lands 2 minutes later, announces, both stand.

2:53 One adult flies. Other after a moment flies into enclosure, feeds chick. Second ad returns lands in enclosure gives challenge call as it lands. - First bumps up more food - They have a tug. Second eats few more morsels

Mahey
1961

Catharacta maccormicki

Jan 7. both then fly 20yds to edge pac & bird, or seem to from under edge, one climbs on ice & eats snow.

3:00 One flies back to enclosure sits next to it. Other sits near ice.

3:05 Chick 235 is fed.

3:15 Mate of 18 arrives. Feeds chick. Bird which has been sitting with the chick gives low alarm calls but comes over & eats, some regurgitated food.

3:20. Two birds swoop down to just chick, one in lead w food in bill. From 3:17, lands, ~~one~~ other flies off. Mate comes over, challenges the eater out of food.

3:33 U.349 flutters to mound, challenges preens then in a few minutes flutters down starts walking toward nest. Suddenly flies N. along slope.

3:51 Chick of 38 just fed.

18: One adult arrived, other present. arrival stood then began to give little alarm calls, soon changed to ~~one~~ one call & both then into New posture side by side, one finally ~~returned~~ stood & then the other so it was then facing toward the first. they straightened up after 2 minutes or so. One now ~~the~~ sits, one preens.

3:58 Unbanded 349 arrives lands.

Mahoney
1961

Cathartes aura ssp.

Jan 7. near ~~nest~~ nest challenges. 1 B arrives to ~~him~~ it. then flutters to mound + preens.

4:08 Unb. 349 finally finishes preening, sits

1 member 11 who was by edge of ice began walking, pacing, stopping etc. gradually approaching nest. Twenty feet away however it flew off

4:19 Unb. 349 shoots next, quiet full challenge then walks past behind nest + gives incubation call; is ignored

4:23 Mate of 11 lands. 349 ends. gives challenge, 11 now preening 30 feet from nest 349 Unb. still stands by nest, now walks off 3 feet + sits.

4:40 Chick 38 being fed

4:45 member of B lands (15 feet from 11 endeavors) Pr 349 both challenge, the incubating bird only the call. then ~~[illegible]~~ member 11 near ice flies over lands by mate, challenges + sits down by it.

4:57 Unb 349 again standing in new pasture near nest giving low- ĕ ĕ ĕ ĕ ĕ calls.

5:03 Relief of 349 took place about here. Unbanded had to sit a while before banded finally got off. Now preening 4 feet before nest.

5:15 Band 349 flew, headed W + finally turned W. toward penguineries.

new pasture

plant added

Mahes
1960

Catharacta maccormicki

Jan. 7

5:16 Mate of 11 must of been flown while I wrote above entry it is now gone & was present a minute or 2 ago

5:18 11 returns lands in enclosure & challenges, stands, chick doesn't go to it. Mate outside stands walks partway around then regurgitates bird in enclosure flies out & eats some of food other bird eats some both challenge & passing bird; both stand.

5:28 One of 11 in enclosure. Chick chases it around. Other flew off. This one left enclosure now sits 10 feet away. Question: Does one of the birds do most or all of feeding. Chick didn't beg from the first bird to enter enclosure but did from second. Also bird which entered enclosure was fed outside by mate.

Nest 38 One adult was sitting as if it was going to feed the chick; other stood 5 feet away in full mew all posture giving Mew call (of all things). This just sort of fizzled out but contributes to question above.

Nest 235 Chick sees one adult comes near, chick begs, adult refuses move away, second adult comes over chick begs adult move off chick following drives up few drops chick quiet a moment then begs again finally adult brings up food other ad. comes over & eats some. Both adults fly away.

Maher
1961

Catharacta maccormicki

Jan 7. 5:49 Second ad. 11 flies off across cove. One adult returns a few seconds after followed by second which announces as it lands. A moment later (after writing above) there is only one by enclosure. It enters enclosure regurgitates, preens and feeds, fool two for a moment.

5:52 Left skuary

Jan 9 Arrived 3:00 PM at 308 & 331

331 Unb. Juv., Banded watching me 20 feet away

308 One ad. standing on one can supporting enclosure. Gives alarm call as I stand. Other ad. not in sight was present as I came up.

3:07 Ad 308 gets tired for a P. chick. a medium one 8 feet from colony, had grabbed it. Ad penguin made lunge, chick broke loose & dashed into colony.

3:08 Second ad. 308 arrive from accumulett cove, lands 60 yds from nest first ad joins former announces as it approaches.

3:28 One ad 308 gone again other by nest enclosure feeding on chick carcass. Second adult had been sitting ~~beyond~~ beyond nest holder by penguins flees to first ad - announces after landing begging feeding on ~~same~~ same carcass.

3:32 Banded 331 makes grab for chick being fed. It is repulsed by several feet from colony

makes
1961

Catharacta maccormicki

Jan 9

adult makes lunge + it backs off. Makes a lunge towards very young chick being brooded at edge of same colony. Ad lunges + roars, skua backs off

1:40 308 One ad walks around enclosure, feds on a second carcass, mate eventually flies over + joins it. Finally one flies off w carcass core.

2:42 Ad skua flies in from cove passes low over 308, circles territory + flies back across cove. Sitting ad. gives no notice. Is this it's mate?

3:52 Incoming 308 ad w apparent greeting like made. Probably from Spea.

3:58 Greeting ad returns from wide territory lands by nest then flies in. Feeds chick + flies out to stand on can. Other ad. flies into enclosure stands 0 feet at, chick doesn't beg from it. This ad. leaves nest entirely one of cans.

4:10 Banded 331 walks over to penguin colony - hunched walk neck withdrawn, body low, gives a "sneaky" look, grabs at something is chased by ad penguin + desists. Sits 15 feet from colony.

4:22 Ad of 308. the one standing on can + hence one who fed chicks last suddenly heads at edge of colony some 20 feet from me grabs + shakes leg neck + tugs at it, runs a foot

Catharacta maccormicki

Jan 9 ~~n~~ 2. No adult Penguin recruited. Since then killed chick. Held onto neck twisted around & got one foot on chick then put one foot on head of chick & held & fed beak & peck gain at chick. Bobbed neck & twisted & squeezed ~~as~~ about 200 times again placing foot on chicks head & held it. Blood ran out of chicks left one eye pulled out, bleeding from cut ~~from~~ on neck. Skua ~~to~~ kept ~~the~~ its weight on chick until it was about dead then stepped off. Began opening body while chick gave few last movements of legs. Started tearing at anus. Note doesn't ~~join~~ eat but acts by nest can.

4:46 Same bird flew to enclosure fed chick flew back to carcass. At this, note finally starts joins at at carcass. Scouts ad feds, just stands & feet away & watches

4:56 Both 308 flew simultaneously from carcass. One landed beyond nest in snow began eating snow & eat, other flew on over cove ~~to~~ toward Sea.

4:58 First 308 ad returns eats by enclosure,

5:13 Band 331 suddenly flies to nest lands 1 foot away challenges Unb. responds in challenge ad lowered wings & in wings raised from body slightly. Band sits.

Unbanded finally gets up flies at one circles territory lands near me. Band sits 5:15

5:45 Unb 331 lands 25 feet E. of me, eats several

14 Jan 1961

Cataracta maccormicki

masses of krill lying there. Walks to g. colony 12 feet from him pukes up a lump, walnut size, of krill, head to another bait when a penguin charges & he flies. Lands on far side colony stays there 2 minutes, perhaps feeding, then flies across the cove.

5:55 308 Pr sitting by nest. One adjacent to enclosure one 30 feet off.

5:57 Ad 308 nearest nest flies to snow & eats some.

5:59 Unb 331 returns circles low over ten. lands on W end & announces to skua flying over at 25 feet.

6:00 left.

Jan 10 4:10 have been watching near nest 204 since 3:20. Ad. 31 & chick in present. The chick has been wandering about most of the time giving the beg. call in plaintive manner. Twice it has gone to adult & begged to no avail. Once it went to stream of water & drank.

Jan 11 12:55 P.M. arrived observ near nets 11 & 349. Unb 349 is incubating, Ad B. standing 20 feet away

11 Both ad standing 10 feet from nest

I am in Territory of 29 and watch in fact I find I am 15 feet from this chick which is flattened down watching me.

Mahn
1961

Catharacta maccormicki

Jan 11 Banded 29 stands 40 feet away, silent. Unbanded near chick giving alarm call. Band. goes bill down to skua overhead.

1:10 just moved 29 chick to 40 feet away, near nest site. Unb. has shut up - almost

1:15 banded 349 is gone. Ads of 11 look out within 6 feet of enclosure.

1:27 Skuas flies over at 8-10 feet by 11 both challenge

1:40 One of 11 is gone.

1:43 Ad 11 seen in aerial dance, lands in nest goes bill down, challenge call, bill down then flutters out w brief alarm call. Other ad. still gone.

1:55 Ad 11 returns from direction of sea lands. Mate gives challenge as it does so; it responds with a challenge.

1:59 One ad. 11 gone.

2:07 B. 349 is back on nest, sits preens. He approaches as number 207 approaches & swoops at him once.

2:17 both of 11 are but one is directly behind & a little below other just saw it when both challenged.

2:19 Skua over at 7-8 feet one of 11 in bill down. Another a moment later get some reaction B. 349 gives same display to skua over at 11 feet.

Mahe
1961

Catharacta maccormicki

Jan 11

2:26 Ad 11 flies off N. along shore.
2:28 " " returns, drops down, challenges, sits. Mate doesn't answer challenge
2:30 Band 349 making slow advance towards nest. Unb. hovers just up. walk 2 feet to chick stands there 30+ ~~seconds~~ minutes, head down, as if feeding. Then walks back to nest + settle on eggs. Perhaps B. only heading for chick it is only 4 feet from him. B. sits:
2:42 B. 349 walks to nest, I hear one or 2 "incubation calls" B. then sat by nest. U. made no move to get up.
2:56 One ad. 11 flew into nest. After a moment moving about ahead of the begging chick it regurgitated + chick ate. Second ad. then joined it. Second left flew to ice (after eating some?) took a drink. First removed, ate some when chick finished + returned sitting on eggs
3:09 B. 349 stands by nest given ~~up~~ Unb. call. Unb. smuggles down on eggs. B sits gets up on a mound + Unb. again gives call + again B. Unb. goes to + B. sits down
3:17 Unb. stands for a moment + sat down again on eggs. Band standing near nest. Band then sits down next to Unb. seems to pass something + Unb. smuggles on eggs
3:36 Band 21 returns, obviously from fish. Mate pellicans + sat down.

Maley
1964

111

Cataracta maccormaki

Jan. 11

3:20 Unk 39 flies 4 mats, 110 feet. Band Albatross
Unk
Albatross Unk, Unk Unk keeps Unk up on landing.
Albatross walk seems to come in spurts & ~~pauses~~
reinforcement evenings.

3:45 11 Jul who has been sitting on nonbreeding flies
to nest, retains nest by 4 pecks. Relieves Unk at
nest upon a 3½ day. and first noticed at
beginning ~~Unk~~ Unk Unk Unk Unk Unk Unk

3:52 Jul 11 now sitting on second nest & eggs. Unk
Jul on nest unbanded Unk nest record

4:02 Unk 319 in standing by nest feeding chick. B on
nest Unk Unk Unk Unk. Unk Unk. Unk Unk Unk
change take place Unk Unk Unk Unk
before Unk Unk Unk Unk Unk Unk Unk
Unk Unk Unk Unk Unk Unk Unk
Unk.

4:09 Jul 11, Unk Unk Unk Unk Unk Unk Unk Unk
4:23 Unk Band 714 sitting on egg (4:02 obs.) Unk
Unk nest on nest, Unk Unk Unk Unk Unk
Unk Unk Unk Unk Unk Unk Unk Unk
Unk Unk Unk Unk Unk Unk Unk Unk
Unk Unk Unk

Maher
1964

Catharacta maccormicki

Jan 11. Island shelf was fast. Work by stopped
Check #1 [illegible] end of ice
5 OT B-349 far away — Adelie rookery

Maley
1968

Catharacta maccormicki

Jan 11 Robert Titus saw a chick killed by a skua yesterday (Jan 10). He examined the chick immediately afterwards + says that the chick was ~~in~~ a healthy one with a full stomach

Noted a skua eating freshly killed, still warm penguin chick. Examination showed it to be healthy looking, fat, with a medium full stomach. Moted feathers were just emerging.

Jan 13 Cape Adare

Two rems of aerial photos were taken of the adare rookery. The first few at 500 feet were too low; + the second at 1800 + 1900 feet — the was the majority + include I hope a complete coverage.

The Hallett air photos made on the return were done at 1300 feet.

Walks along S. beach at Adare in morning gave 138 adults present in groups of 8, 4, 34, 17, 22, 14, 35 I, 2, + 2 .. In late afternoon on the same route I got 132 - groups were 5, 10, 47, 60 (I).

Douglas on trip along beach in afternoon counted about 80. On on trip back through the penguinery I noted only 16 skuas 3 of which were near the huts. There are then few skuas in the penguinery

Mabey
1961

Catharacta maccormicki
Journal

Jan 13 though many are seen flying back & forth over it. The area between the colonies is so reduced that none hunters must congregate at the edges to a greater degree than they do at Hallett.

Another impression I had was that there were far fewer remains of eaten penguin chicks encountered as one walked about; in fact almost none were seen. I made no count as I had nothing to compare with at Hallett but 1/5 to 1/10 as many per unit area seems apparent.

Skua nests were finally found on the slopes above the penguinery. This is list of what we found: 2 egg shells

1 shell, & 1 cold egg

1 nest w one egg ad. Incubating.

1 nest, 1 egg

3 skuas seen sitting on nests at distance. DSD visited one & found it empty.

1 Ad. on nest, one chick 2-4 days old.

1 Nest w a pair present, not visited.

1 Pr together one sitting on on nest. Not visited

Max. possible 8 nests or pairs about 4 nest.

Maher
1961

Cathartes aura ~~jamaicensis~~

Jan. 13 Two pairs had an egg & one pair a very young chick.

Before making each conclusion I must add that today (Jan. 14) Reid radioed that they had found a shag & had already counted 120 nests on top of the Cape at Adare. So make I should quote. However it seemed to me at the time that the shags were nesting on the hillside below 200-250 meters in sparse numbers. I thought we might have gotten at least ¼ of these percent or make a 1/3. We covered ½ to ⅔ of the cliff not inhabited by penguins. Scanning the cliffs ~~penguins~~ hindsight failed to show any areas of shag droppings but these might not show from a distance on the rock outcrops they picked. Brians recent Camp upsets all this however.

Maher
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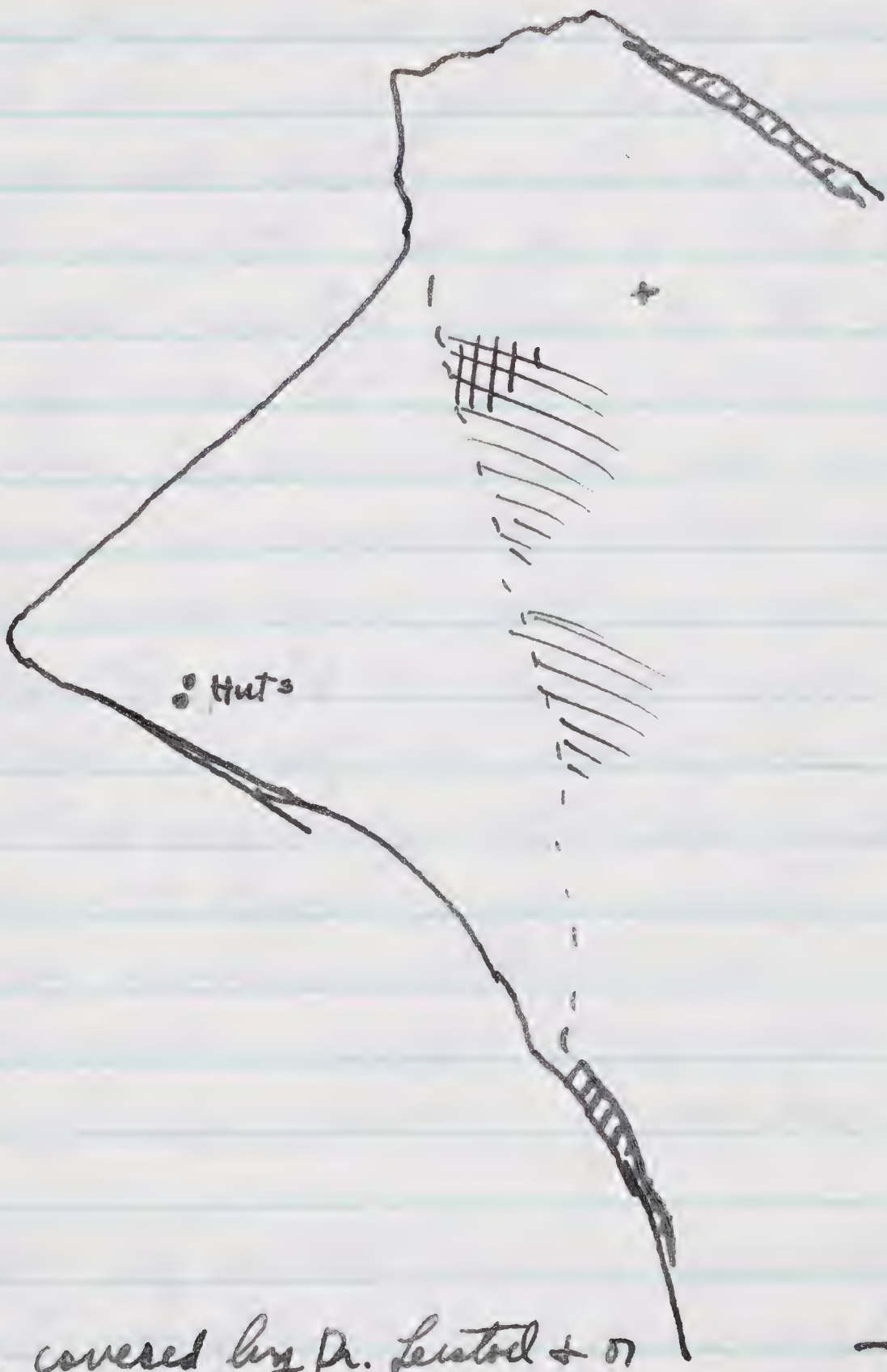
Catharacta maccormicki

Cape Adare, Antarctica

Jan 13



/// area covered by Dr. Leistod & Dr Douglas & Maher looking for skua nests.

XXX area in which skuas were found nesting.

Mabel
1961

Catharacta maccormicki

Jan 18

Modoc died suddenly today. He showed the same symptoms showed by Gretchen earlier but while she remains alive he died quickly. He was apparently healthy in the morning + had the run of the lab for an hour or 2. Dan took a picture of him on the cage in the afternoon. At 5:30 I noticed he was panting, gasping would be more accurate + he showed no desposition to stand. When pushed he raised himself part way but with difficulty. At 6:30 I found both legs stretched straight out behind him — he couldn't do anything with them. He defecated a few times + the droppings were unhealthy looking. They must resembled the cooked canned tomatoes + unclear ~~&~~ consistion after several days cooking. He was dead by 7.30.

Gretchen by contrast seems in good shape she is alert, vocal (very!) and has a good appetite. She still can do nothing with her legs however.

Jan 20

Addendum. When skinned Modoc was found to be quite fat. Subcutaneous fat taken off the skin weighed 62 gms. There was a large amount of fat in mesenteries. His bones were weak + brittle + the body seemed dehydrated. Present opinion is he died of a Ca deficiency. Thio was strengthened

Catharacta maccormicki

Jan. 18 by Gretchen's fate. Yesterday one of her tarsi was bent considerably in fact broken, apparently spontaneously by her weight on it. Gretchen was put out to nembutal on morning of 20 when it was decided there was no hope of her recovering use of her legs even with massage & in diet.

Jan 19 Dech 31 when Kindled brought up a large mass of masticated krill. Stomach content of penguin chick it looked like. In considering fate of Madoc & Gretchen I am inclined to think that krill must be an important part of the skua chicks diet. Perhaps their main source of Calcium. Madoc & Gretchen have consistently refused to eat it. yet adult skuas eat krill lying on the ground in the colonies & also eat skua & contents of chicks killed usually. The chicks & adults get few bones to eat once the p chicks are well along in size.

Other possible Ca source is pebbles which the chicks seem to eat deliberately, both Penguin & skua could be coated by salt spray, condensation nuclei of snow or blown on to spit from newly formed salt ice. Pretty unlikely that enough ingredient I think however.

Jan 20 Gretchen was autopsied the A.M. Both tibia had broken & were healing (bent), one tarsus was

Cathartes aura aura

also broken. No lesions apparent in liver. This seems to clinch the Ca shortage idea. All her bones were very fragile also, exploded readily, had a porous texture.

I should mention also that I checked Modocs liver, lungs, heart for any lesion like aspergillosis there was nothing all looked healthy the lungs however were not bright red but very brown in appearance.

Jan 24 Note two chicks running today in usual chick crouch except that their tails were elevated - something like that. However these adults elevate tail in situations where they are perhaps feeling defensive as when dived at etc. Note this on future.

Mar
1961

120

Cathaeta macconnicki

Jan 20 arrived 1:43

31 Parent w chick. 206 Marked adult present + chick. a second ad. with 31 is I believe the F(?) of 206. 205 present near nest site. Their chick 30 yds off. 301 present also pair 12, present near their chick. Pr 204 present + chick.

Shortly after I arrived chick 31 threw up a mass of krill. One adult at down when shortly after he threw up more the other adult came over with intentions of eating it but first adult killed it instead.

1:56 Both 31 adults announce to a low flying (15') plane.

1:58 31 chick + Marked 206 announce a passing plane. Ad in challenge. chick in plane challenge i.e. w wings folded.

2:00 Strange pair landed near 204 both challenged then attacked. One intruder flew after a minute or so. Other remained a couple of minutes then also flew. There was no other challenge though one pair near 204 resumed bill down display.

2:05 Low plane 206 Ad, 31 chick + Ad all challenged.

2:23 Fast one then second 31 ad flew off + landed 30 feet S. chick is one near 206.

2:30 31 chick challenges low flying plane

2:32 One of 31 Ad left within last 2 minutes.

2:52 Left. 31 ad had walked back to nest area. 206 Parent had 5 min. this time

Mabey
1961

121

Cathaeata macconnicki

Feb 1

Mottled shuas were noted several times today. There are birds in which the baby feathers particularly head neck & breast have uneven coloration as if they are replacing the contour feathers. Those I have noted have been around camps or in penguinary not in shuary. I first noted one on the day of the storm & have been noting them occasionally since.

~~DDT black tern~~

One recent round when I saw the first flying chick I made 2 observations I should record. As the chick flew down slope & then up an adult dived on it & clasped right on it to (the chicks) back, feet down as if flying & force the chick down. Later on same round at nest 321 when the chick got up & ran one adult did the ~~same~~ same thing flew & back of chick & seemed to push it down perhaps to induce it to crouch(?) ~~Fo~~ Terns do this to Falcons when they have nest I believe but why?

Feb 4

Nest 300 chick can almost fly got feet 6 inches off ground ~~&~~ when I chased it 11 - chick out of enclosure

Maley
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Catharacta maccormicki

Feb 2 J. – Chick regurgitated food – penguin meat + adult penguin feathers.

Feb 6 Several more mewling adults noted during day.

Chicks apparently more freely among territories largely unmolested by adults. Because of my presence a herd of 4 gathered on territory 31 none of the respective adults followed them or took any defensive action. This a frequent observation though this is the largest herd I have seen. One exception at nest 11. Chick ran fly, alighted on 349 territory one adult attacked it, mantled & on neck then deserted. Chick in "defense" with hissing ēēya ēēya call. adult attacked it second time chick then ran off. This attack may be because 11 chick is so much larger than 349's who is a late hatchling.

Incident at Spa. Ad standing got into "regurgitating" pose (whatever that is; in other words stretched to neck as if about to regurgitate. One adult showed great interest started towards it then as food was brought up several mobbed it on the spot.

Feb 8. Molt of Stercs collected on Feb 7.

1761 – Replacement general on ventral tract capitals tract & every spare (1 or 2) on back. No flight

Mahn
1961

Feb 8

Cathartes aura

feathers or coverts.

1762 (pr 204) Replacement on Ventral tract near cropper where tract bifurcates, capital tract top & sides. No replacement on back & also around edge of bread patch. No flight feathers or coverts.

1763 (206) Ventral tract at bifurcation few on underside of neck one pin feather lower back, few on head. No flight feathers & coverts. Also around edge of bread patch.

1764 (42) Heavy replacement on ventral tract over entire length. Mod. on dorsal tract & heavy on capital tract. No flight feathers. & coverts involved

Band #'s of above:

1761 = DM 34883

1762 = 657-61018

1763 = 617-07521

1764 = 617-00149 (New band pattern chair)

Pair 308: Chick flew when I approached landed on 331 territory, adult - unbanded - of that pair landed in front of it & challenged chick hunched up & ran back to territory.

Feb 10

Skuas seem to be declining though not nearly as precipitously as the penguins. As far as Skuas ~~I~~ no chick has fledged in sense of being off territory & independent to ~~the~~ parents ~~and the~~ Also adults are still staying with chicks. Decline then

Mather
1961

Catharacta maccormicki

Feb 10

must be due to departure of non-breeders or the failures. Scanning out over the bay from N. shore yesterday I was struck by the numbers of skuas seen flying about over the ice even at a great distance north. Some were seen feeding on bodys of penguins presumedly chicks. Occurred to me that with the departure of the chicks & so expect a high mortality among them the skuas would tend to depart with them. (Fellow penguins all winter?) I have seen skuas quite often in past 10 days to 2 weeks feeding on chick carcasses along shore (in which) but have made no specific reference to it

Examined chick 102 from pen 305 killed on Feb. 8. This chick developed well until almost fledged when legs became weak & he could no longer stand. I noted on the 8 that one leg was bent out sharply so killed the chick. Bones were extremely brittle, crumbled at slightest squeeze of pliers; body delightful same characters noted in Lemmings Adoc & Gretchen.

Feb 11

A few items picked upon skua round.

1: Pelvis & legs of chick

2: Wings of chick ~~legs~~ w primaries 2 inches long. Each these items found

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Catharacta maccormicki

(Food)

in hillside skuary are from separate chicks one from nest 52 area & the other from nest 36 area. Not necessarily from that nests however. Black primaries on wing already fading & brown color.

3: Ct skua chicks guilla & humeras of, skua chick from near nest 3.

Wilson petrels. Running feathers 8/01 feet of fresh ones at 4 different nests. 3 on hillside, one on level.

Snow petrel - tail feathers at 2 diff. places.

Feb 14 While in skuary this morning measuring nest distances noted 1 chick sitting with 5016 adults on a mound. This one of Evans pairs. Also at nest 300, 2 flying chicks were sitting in company with one adult.

Feb 18 Walked north shore in morning. Wind 40+ knots. Skuas sitting on lee side of ridge. Noted 2 of the years chicks in lot. Both banded.

Afternoon visited nests on penguin way side:

✓ 364 Ct present defensive

✓ 331 Unbanded adult present, chick present, ~~beg~~ begged - gave begging cry when sighted adult

✓ 307 One adult (or pair - not sure) chick not seen

✓ 308 One adult, dark one, chick present

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126

Catharista macconnachi

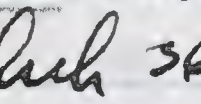
Feb 19 Pair 305 not present, chick not present
339 Pair present chick flying
363 Pair & chick present chick not flying

Notes on Adare skinny from Brian Laid dated Jan. 25.

255 pairs of shucs
220 pairs with either eggs or chicks

No egg no chick =	35
2 chicks	12
1 chick	194
1 egg, 1 chick	4
2 eggs	3
1 egg	7
total chicks	222
" eggs	17
Grand Total	239

Brian thought timing about the same as Hallett, thought fewer 2 chick nests.

Feb 27 Chick 361 or 69 was fed by adult. In begging from adult it assumed the hunched posture with however the wings raised up & beat limply at urnet  something like that. Chick runs toward ad with wing moving back & forth, limpness of "hand" gives it movement a "rowing" motion.

Guttural staccato call uttered by 2 flying chicks chasing & diving at each other. adults utter same call in the ~~same~~ situation

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Catharacta maccormicki:

Feb. 20 This afternoon there were 30+ skuas feeding about carcass of crabeating seal at Hydrogen shack. None were young of year. This true all the time the skuas fed on seal scraps — no young seen

Feb. 22 ✓ 323 adult present, chick present

✓ 364 1 adult, chick present not flying

✓ 331 No adults present, chick dead for 2 or 3 days apparently.

307 Banded adult + chick present on base. a territorial defense vs another skua was seen.

✓ 308 — nothing present

✓ 305 Non banded adult + chick present. a territorial announcement seen.

✓ 363 — One adult and chick present. chick not flying

✓ 339 chick present + at least one adult

✓ 327 " " " " "

Brian reports a chick feeding on a dead adelie penguin at bottom of Leilehe colony.

Feb 25 No chicks have been seen yet feeding on the seal remains

Feb 28 One chick seen sitting with adults hanging about near hall, first I have seen down this end of camp.

Mabey
1961

128

Cathousta maccormicki.

Food, Fresh bird regurgitated

Mar. 1 – Caught chick E in skuary. It regurgitated a mass of fresh krill. Apparently ad skuas are getting their own krill at this date.

Arthur Ford of USGS from camp saw a skua 200–250 miles from pole, heading South.

Mar. 2 A chick (E) regurgitated a mass of 6 small fish (5 inches long ±) Bruce Wing of Stanford gave me the name – Pleuragramma ?? I think!

Mar. 5 Four young and 8 adults were seen at top of hook near nest site 331 Chick 363 can just fly.

Mar. 7 A Salmon banded adult near nest 327 showed signs of wing mouult. 4th primary from outer end on each wing. One showed definite gap the other wing a distinct notch. This first & only sign of wing mouult seen so far.

Mar. 6 Skuary census has visited this day. Pellets collected yielded following:

Ring pong Ball	1
Snow Petrel	34
Wilson "	10
Adeliae Penguin	3
Fish remains	1
Total	48

Maher
1961

Catharacta maccormicki

Data from skinny from earlier visit supplied by Brian Reed

Nov 29 – count of pellets	
Wilson Petrel	244
Snow Petrel	86
Adelie	27
Skua duck	7
total	364 pellets

~~Snow Petrel~~

Snow Petrel count includes wings & gulls & pellets – hence is exaggerated as far as ~~it~~ is concerned.

Brian noted snow petrel wings + remains that brought back & included in count above of Nov 6 visit. Wilson Petrel 4

Snow petrel			
	wing pairs	14	26
	leg pairs	5	
	Single legs	3	
	Bolus	4	

Maley
1960

Wiring colour code of chart

Nov. 11

Wing	Colour.	No.	Remarks
Rt	Red	DM 34870	Recap.
Lft.	Red	DM 34874	"
Rt	Blue	DM 34868	"
Lft	Blue	DM 34883	"
Rt	Yellow	657 - 61008	New
Lft	Yellow	DM - 34864	Recap.
Rt.	Orange	657 - 61003	New
Lft	Orange	657 - 61004	New
Rt	Green	657 - 61001	New
Lft.	Green	657 - 61002	New
Rt	Rd - Yellow	657 - 61006	"
Lft	Rd - Yellow	657 - 61005	"
Rt	Rd - Gr	657 - 61007	"
Lft	Rd - Gr.	DM - 34913	Recap.
Rt	Rd - Bl	657 - 61009	New
Lft	Rd - Bl	657 - 61010	"
Rt	Rd - Orange	657 - 61011	"
Lft	Rd - Orange	DM - 34872	Recap
Rt.	Bl - Rd	DM - 34863	"
Lft.	Bl - Rd	~~657~~ - 61012	New.

Nov. 12

Rt	Bl - Or	657 - 61013	New
Lft	Bl - Or	657 - 61015	New
Rt	Bl - Yw.	DM - 34873	Recap
Lft	" "	657 - 61014	New
Rt	Yw - Rd	(Lft) DM 34823, (Rt) FWS 647-26203	Recap
Lft	" "	(Rt) FWS - 617-00024 (Lft Rd)	Recap

Makes 1960

Slave wiring colour code data

Wiring	Colours	No.	Remarks
Nov. 12			
Rt.	Yw - Gr.	DM-34879 (Lft)	Recap
Lft	" "	DM 34893 (Lft)	Recap
Rt	Or. - Rd	FWS-617-07529	"
Lft	Or - Rd	DM-34922 (Lft)	"
Rt	Bl - Gr	DM-34917 (Lft)	"
Nov. 13			
Lft.	Bl - Gr.	657-61024	New
Rt	Yw - Or	657-61019	"
Lft.	" "	657-61018	"
Rt	Yw - Bl	DM-34880	Recap
Lft	" "	FWS 617-00028	"
Rt	Or - Bl	657-61020	New
Lft	" "	DM-34882	Recap
Rt	Or - Yw	FWS 617-07521	Recap
Lft.	" "	657-61021	New
Rt.	Or - Gr	657-61023	"
Lft.	Or - Gr	DM-34890	Recap.
Both	Red	657-61016	New
Both	Green	657-61017	"
Both	Blue	DM-34871	Recap.

Mahn
1960

Shua Banding records

Nov. 20	FWS	657-61022	Both Y
	"	657-61025	"
	"	657-61026	"
	"	657-61027	"
	"	657-61028	"
	"	657-61029	"
	"	657-61030	"
	"	657-61031	"
	"	657-61032	"
Jan. 19	"	657-61033 ~~through~~ [Not parmed]	
		657-61050 inclusive. — Sexes of shua chicks banded on Kt tarsus. See next page for previous records	

Melby
1961

Cathartacta maccormicki

	Band No.	Check No. (Nest No.)
Jan 19	657-61033	30
	034	206
	035	~~21~~ 328 (~~a 320?~~)
	036	12
	037	2
	038	20
	039	339
	040	22
	041	22
	042	302
	043	302
	044	~~320~~ 29 (a 29) ~~another a!~~
	045	305
	046	327
	047	204 or 230
	048	205
	049	31
	050	300
Jan 21	657-61101	307-RM
	61102	307 LM
	61103	323
	61104	308
Jan 24	657-61105	11
	-106	26
	107	36
	108	235
	109	76

Hatley
1961

Catharacta maccormicki

Date	Band #	Nest # or duck no.
Jan 24	657-61100	355
	111	208
	112	210
	113	359
	114	I
	115	74
	116	19
	117	238
	118	23
	119	27
	120	344
	121	212
	122	23
	123	73
	124	74
	125	J
	126	78
	127	209
	128	77
Jan 25	~~129~~	217
	130	1
	131	25
	132	~~RM~~ 337
	133	24 RM
	134	F
	135	M
	136	(lost)
	137	? ~~Hen F + nest 30~~ 30

Mabee
1961

Catharacta maccormicki

Date	Band No.	Nest &/or Chick	
Jan 25	657-61138	330	
	139	41	
	140	1	
	141	B	KOK
	142	30	(01232) on 033
	143	232	
	144	C	
	145	348	
	146	N	
	147	38	
	148	361	
	149	18	
Jan 27	150	3	
	151	214	
	152	71	
	153		
	154		
	155	354	
	156	247 (1 ♀)	
	157	[redacted]	large chick near 230. 6/31
	158	364	
	159	H	
	160		
	161	321	
	162		
	163	73	
	164	331	

Maha
1961

Carthamus maccannichi

			Chuh a neat
Jan 27	657-61165	52	~~Chuh a neat~~
	166		E
	167		247 (242)
	168		75 ??
	169		
	170		358
	171		40
	172		
	173		363 (6/30)
	174		
	175		356
	176		
	177		
	178		
	179		
	180		
	181		
	182		
	183		
	184		
	185		
	186		
	187		
	188		
	189		
	190		
	191		
	192		

Mabee
1961

Catharacta maccormicki

627-61 193
194
195
196
197
198
199
200

Males
1961

Catharacta maccormicki: Color Pictures
Bl + White

Jan 24. Roll # 14 : first 18 pictures largely of L. antarctica taken this date. Skua chicks taken in order then are: 235 (2), 79 (1), 209 (2), 359 (2), 77 (1), 75 (3) 72 (1 or 2). Two pictures of rookery penguins follow. Two shots chick 331 LH. - Two penguin chick (or ?) - Lion-lab shot ends roll - on Jan 25.

Roll: Ilford #1 Bl & W.

Jan 30. First part of roll of penguin chicks Sunday during blow. Picture of 331 chick on Jan 30.

Jan 31. Finished roll. Chick 36[illegible] 1 picture 349 chick 1 picture + series of ad. homing, challenging etc. One picture each of chick ~~B~~, 11, 19, I, J. (No 11 may be before 349 chick difference in age should make it obvious).

Mabee
1960

Skua band recoveries.

Nov. 20 FWS 617-00144 (found treated in skua nest 232)
" 617 00149 (found in skuary on string + nose mud)

Maley
1900

Leptonychotes weddelli

Oct 29 Scott Base, McMurdo.

7 ♀ seals with calves on ice along sea side of pressure ridge near Scott Base. Each ♀ w one pup. Several born within a few hours I would say as their umbilici were fresh & the placenta also looked fresh. Near each ♀ was an impression in the snow melted in 8 to 10 inches deep of the seal. They apparently had lain there for several days without moving before giving birth. Spots of urine in depression indicated that they had not even moved or moved slightly for this function.

The seals were aware of our presence but must put up with it. One came towards me but stopped 10 feet off. One slid moving with flippers held against side & tail off the ice apparently in the manner of a giant inchworm.

Oct. 31 Saw one Weddell seal in evening on ice 1/4 mile offshore from camp.

Mabey
1961

Hydrurga leptonyx

Jan 30

Several (2) sightings of 4 leopard seals have been made in the past week & are recorded in the daily Journal. Today's observation are worth seperate treatment. I was awakened at 2 AM today by one of the aerographers who had seen a leopard seal eating penguins. Here is what had happened. He was standing a few feet from shore near the Bro Hut. The ice was packed in pretty tight, leaving a narrow band of open water along shore. There were penguins, adults & chicks swimming & on the ice. He saw a number of penguins get out of the water in some excitement then suddenly the leopards head appeared 30 feet off shore grabbed a penguin standing on the edge of a low lying ice floe & disappeared. The penguin was grabbed around its middle. The floe was 12-15 inches higher than the water. The seal was not seen to eat the penguin; later, the seals head again emerged with a penguin in its mouth. Krieger thought this was a second penguin taken. The seal disappeared. This was when Douglas & I were called. When I arrived it had already taken a third, a chick. It was not seen to take the one but simply emerged with it in its mouth. For 15 or 20 minutes the seal played with the carcass, rolling over & over, tossing & floating submerging & reappearing to grab the

Krieger
Krieg.

14 Dec 1961

Hydrurga leptonyx

body. Eventually it bit the head off & ate it then shortly after it "skinned" the carcass. This was accomplished by holding the carcass in its teeth & snapping it to the head. The carcass was flung away. The seal then swallowed the skin & left the carcass which consisted of flippers, feet, tail & rib cage; I could tell what else. Some earlier playing movements consisted of thrashing the head back & forth as if to skin the seal but never hard enough that it appeared to be more than playing.

The seal was sighted several other times in the next hour but was not seen to take any more penguins.

Poles
antenna poles in pergamon. Numbers are
paces between poles

58

111

58

140

81

111

Maher
1960

Pagodroma nivea

Oct 31 Hallett station.

First snow petrel seen at 3:30 P.M. It was flying high + along the ridge behind camp. Flight was direct with almost continuous flapping which I understand is typical of the bird.

Dr. Falla saw one later in the afternoon accross the bay at the site at which they nested last year. The bird landed + entered a nest cavity, emerged a few minutes later + flew. These are the first seen this year.

Nov. 3 None seen since above.

Nov. 4. Several Hawaiian men here on a harbor construction detail reported seeing some snow petrels today. The were ~~in~~ seen in mid afternoon, in 2 flocks + about 15 in the first + 150/16 in the second. Flying high from Hallett ridge accross bay.

Nov. 7 George Meyers + Keith Wise made a trip accross the ~~Bay~~ bay in the afternoon. They reported seeing a "couple of dozen" snow petrels about one segment of the cliffs. Meyers reported seeing one bird go in + come out of a nest cavity.

Nov. 9 Visited petrelery in afternoon the section of cliff we visited was ~~not~~ about a mile long

Malay
1960

Lagdrocca nuvia

Nov. 9 according to the map. at its N. end it was estimated at the 300 feet high but for 2/3 of its length it was 5000 or more. The rock reminds me of N.Y. palisades & may be igneous ~~but~~ but its important characteristic as far as the petals are concerned is the fact ~~that~~ it is very much fractured & crumbling. thus forming numerous cavities for nest sites. The birds were in evidence flying about the face of the cliff & as one watched it became obvious ~~that~~ there were great numbers of them. They could be heard squawking from the cliffs in a call ~~that~~ can best be described by saying it is similar to Ronald Duck. It is a grating, low pitched roar, (the best I can do) It was emitted by single birds, when we were near the nest or by ~~a~~ a bird when its mate - or another bird joined it. We found a number of nests. ~~Five~~ ~~that~~ I saw ~~at~~ Bad 2 w 2 birds & 2 w one bird. Three were shallow, about 1-2 feet deep & the birds were easily taken. Two were quite deep - 4 feet & harder & get at. One of these had been blocked in snow & it was evident that the petrel ~~had~~ cleared out the snow to get in. The birds remained in their cavities when

Farrington complex

or that not a key.

May 1960

Pagodroma nivea

Nov. 9 disturbed, tho they had opportunity to fly off in some instances. They spat an orange colored oil when approached & handled & most were soiled with this as we were also. The quantity they produced was amazing — 2-3 ounces from some birds, one or 2 produced none to a few drops.

No eggs were found.

The bird seemed more active on its feet than I expected. One member of the first pair found stood on its feet while we photographed the pair & caught it to mate. Another pair — beyond arms reach in its burrow stood in the back & climbed out of sight, or tried to. It was noted that one bird used its beak to get a purchase but they definitely stood for long periods & were able to use the feet with which to climb.

Nov. 10 Took a walk in the A.M. to the cliffs at the cape. This is a mass of congealed lava, as far as I know. It is crumbling & castellated at the top, estimated at 400-500 feet high. Three snow petrels were seen along the cliffs. One was seen to land & was greeted by the squawking of another. The call of the species was heard 3

Makey
1960

Pagodroma nivea

Nov. 10 times while we were there coming from the cliff face. It looks as if a few pair probably nest there.

The limiting factor here seems to be the nature of the rock. The cliff just doesn't offer the numerous nest sites of the cliffs across the way.

Nov. 13. One seen over the base in evening late probably about midnight.

Nov. 14. Collin Bailey returned from climbing the ridge behind camp and reported numbers of snow petrels about the top of the cliffs.

Nov. 16 #1659 moulting heavily on head – few contour on breast + back.

Felsite Island was visited by a party consisting of Keith Mary Charles Traine + Peter Dill. The island is 1 mile long + 3/4 mile wide at widest + is situated in the S. end of Edsels Inlet. It is cut off from the by proper by tongues of the Arneb and Mainland glaciers which meet in the middle of the inlet. The island is fronted by sea ice on the N + W sides + by the Edsels Glacier on S. + most of E. side. The party visited the N + NW side of island. Only a few petrels were seen perhaps 10 or 12 all told but

No skuas seen Felsite Island K.W.

Maley
1960

Pagodroma nivea

the cries of many were heard in the rocks. Keith had the impression that there were half as many as at the cliffs mentioned previously but still a fair number of birds.

In evening at 11:30 PM. as the Radiosonde balloon was released petrels were seen about it & following it up. Dan Daugherty says they frequently do this. In about 3-5 minutes watching I saw 1, 2, 15, 1 birds fly over coming from the E & heading across Edisto inlet toward the petrelery.

Nov. 17 At 11:40 AM 4 or 5 were seen flying E high over station.

12:25 5 more were seen as above

3:40 PM 3 were seen flying E towards Hallett Ridge over cove, a 4th was seen along ridge. This ridge is some 1000 feet high & petrels are seen there along the top with fair frequency. From their range when seen flying there it seems that the birds normally fly at about 1000 feet altitude tho occasionally I have seen them lower in fog or late evening over the station.

A large flight of petrels went over in the evening, heading W. toward the petrelery. They were first noticed at 6:15 by Peter Martin, flying high.

Last of one individual seen.

Maher
1960

Pagodroma nivea

Nov. 17 Two 10 minute counts were made with results:

Time: 6:20 - 6:31

Birds: 2, 13, 53, 14, 5, 14, 40, 16, 6, 30, 52, 1, 19, 21, 14, 40, 28, 12, 33, 21, 10, 16.

Total 471 Rate: 2826/hour

Time: 7:35 - 7:45

Birds: 5, 32, 6, 24, 2, 2, 17, 2, 46, 2, 44, 9, 1, 55, 12.

Total 259. Rate 1554/hour

Some were still going over at 8:30 but no count was made. None were seen in a 2 minute check at 10:30.

At Midnight (11:35 EST to be exact) 11 were seen (8, 2, 1) all again flying high & heading west.

Nov. 18 11. AM 9 Snow Petrels over camp, high → E.

12:17 4 " " → E

12:42 - 12:45 6 SP → E.

5:00 - 5:20 PM. 120/hour

3, 13, 1, 2, 6, 7, 4, 1, 5 = 42

6:15 - 6:20

4, 14 = 18

Visibility poor this evening and high cirrus cover present.

Mahr
1960

Pagodroma nivea

Nov. 21 Visited Prions Precipice today. This is a series of cliffs extending for about a mile along the W. side of Edwards Inlet. It is one of 2 large cliffs on that side of the bay the other one being referred to as Boules Ramparts. These 2 plus the cliffs on Falcata Island are the only major snow petrel habitat here. There are other cliffs on the E side of the bay but they are of volcanic material like cape Hallett and like it do not seem to provide many nest sites for the petrel.

To get back to Prion's Pree. I checked the S. most portion which proved to be suitable petrel habitat, climbed a bit about the central portion visited on previous trip here & traveled the full length of the N. most portion. Snow petrels were not in evidence most of the time. We saw only one or 2 in our climb & found none on burrows tho- we must have explored a dozen active nest sites. Very few were seen at other portions of the cliff. The birds simply were not present. On our last visit they were visible constantly in numbers

Maha
1960

Pagodroma nivea

Nov. 21

flying back & forth along the cliff & audibly calling from the nest cavities. Five time very few were seen. Most of these were about the top of the tallest part of the cliffs at the N. end. We climbed up the back of the cliff where the slope make a climb feasible. The cliff is about a thousand feet high at this point, and must be 1100 1200 feet high at its highest point. The profile of the cliff is as: →
so that there appears to be more nest sites high up than down. We dropped down a ways from the top & found a number of nests, 2 with birds which we took & strangled. Nest sites were numerous, all used & what is more they showed much more sign of past use than those I saw low down on the cliff. There was a heavy incrustation of dropping on the rocks about their entrance. This formed a brownish white layer very much like pack rat droppings on rocks ~~of the~~. Dead chicks were common, one nest yielded 6 from previous years. We found one old unhatched egg. Burrows usually showed signs of current ~~activity~~ activity but again the birds were largely absent. We

Maher
1960

~~Catau Island~~ Lagodroma marina

Nov. 21 descended by the back slope, a comparatively gentle one, steep but easy walking. There were many ~~bandicoots~~ bandicoots scattered about & we found that the ~~petrels~~ petrels were nesting here also. Found 2 in one burrow which we collected, also saw a number of other burrows.

Brian & Colin visited Tonic rampart also & found similar conditions. i.e many unoccupied burrows & a few birds present. They collected one.

Nov. 29 Trip to petrel bay again, & again to the cliffs called Brian's Precipice locally. (& I hope it remains local). Sampling again was along top of cliff on both E & W sides of it & extending for half mile along it. Douglas estimate he inspected 70 nest cavities. I estimate I saw 40 or so. a total sample of over a hundred. We found 2 birds in nests one of which Don captured. I scared one bird from its nest & saw another enter a crevice from which I scared it a little later. Colin & Brian saw no birds at all in nests.

Birds were definitely scarcer than last time. We saw 4 or 5 in the air total in the entire day.

Old dead chicks were found again, but

Mabey
1960

Pagodroma nivea

nest collected. Don found 2 chicks probably from last year which seem good enough to skin. I took these. Also we found old eggs. I brought 3 entire ones back with me; One of which cracked & the other 2 were blown. One of these seems to be only one year old & was apparently infertile. The other, several years old contains an embryo in feathers which is now macerating (I hope).

Brian has measured the eggs I plan to be brought back. They are:

55.6	x	40.4	Cracked Mabey
52.8	x	40.4	Entire "
54.3	x	39.2	" "
53.1	x	40.7	Entire Reid
50.8	x	37.5	Cracked
56.6	x	37.9	½ eaten.

It was evident that the birds were almost entirely absent. What is more. The absence of sightings of the birds flying over in the past week or more probably indicates that they are not regularly present about the breeding sites so yet but all or most nests had obviously been visited

Dec 1 Flock of 80-100 snow petrels flying low over camp. Wind strong from S. birds heading into the but morning W. across Bay. F

Mabey
1960

Pagodroma nivea

Dec 8 Eight petrels seen at 5:30 PM flying W. at 100. feet height.

Dec. 7 D.S.D. reports 50-75 Petrels flying high to West at 1:45 A.M. this date.

Dec 5 35-40 petrels high at 3:30 PM → W.

Dec 12 At 10:30 AM Don Douglas saw a large flock of snow petrels, 50-100 birds, seen flying around the cape.

Mar 6 Made ~~xxxx~~ trip to petrelery today. The party consisted of Brian Lud, Arthur Ford of USGS + myself. We were transported across the bay by a helicopter from the Edisto and left there for 4 hours. We left here at about 10:15 + were picked up at 2:30 to 2:40 PM. The copter landed us in the saddle behind the promontory N. of the glacier across the bay. Brian + I climbed the precipice from there + worked our way along the top exploring down the face in likely places for nests. We also searched on the back side of the cliff where rocks looked suitable.

Results are summarized as follows.

1) Only 2 adult petrels were seen, both flying along cliff 2/3 of way down.

2) More than half of the nests were empty. We looked in quite a few before finding a check. We saw a total of 6 live

Baker
1861

Pagodroma nivea

chicks + 1 dead one. Five of the former were collected (actually thought I had 6 but only 5 when I got back.) all were on verge of flying most with some down still attached. None made any attempt to fly when disturbed.

3) Most at least majority of chicks have fledged.

4) Chicks defecate out entrance of nest. Must move 2 feet or more from position in which they usually eat

5) Chicks exercise before flying. Once saw one flapping wings on ledge. Caught it & found it had moved a couple of feet from its nest. ~~Actual~~

6) Still being fed by adults. One chick regurgitated bits of fish flesh & a length of vertebral column (saved!) Others produced large quantities of orange oil. Former was definitely being fed & others I presume being fed on krill. Can't see how they could produce orange oil if just living on their reserves.

7) adults & chicks can walk. Saw chicks land on feet & tarsus then walked 16 steps on feet only across snow & scrambled up on rock. Very clearly shown.

8) When one bird seen operating a skua flew over to nest but keeper after looking the place over. Skuas do prey on

Maley
1961

Pagodroma nivea

petrels as shown by remains found in skuary. See skua account for this.

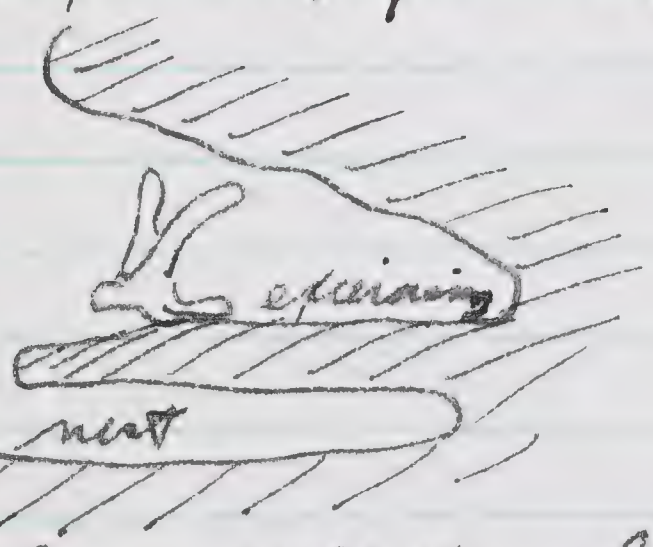
From Brian Reid:

179 nests occupied. – all others w recent droppings – chick collected

6 nests w chicks on back side

4 collected

Chick quarreling on ledge



walked up from nest to skua to observe footprints in snow. retreated back when skua swooped over. petrel chick could be caught this way.

Presence of half grown chick in skuary indicate they can't do take chicks out of nest – some nests quite vulnerable – more open cavities

Brian found a clean skeleton of a snow petrel chick in small nest cavity 2 feet 9 inches in from entrance in cavity 4½" high 9" wide. Inaccessible to skua. Cannibalism? ?????